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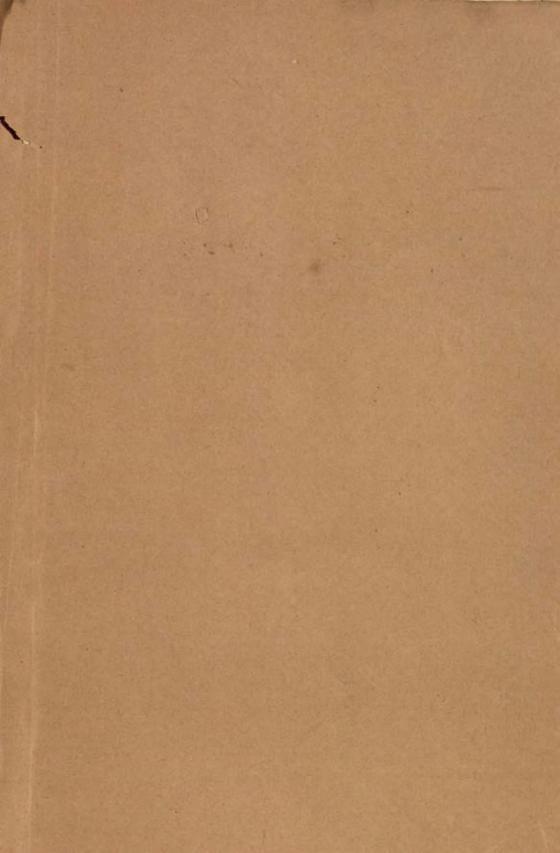
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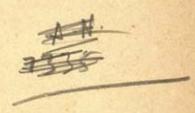
GAZETTEER

OF THE

# JHANG DISTRICT,

1883-84.

30636



Compiled and Published under the authority of the Punjab Government.

P.D.G. Jha D-9080 MD

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### PREFACE.

The period fixed by the Punjab Government for the compilation of the Gasetteer of the Province being limited to twelve months, the Editor has not been able to prepare any original matter for the present work; and his duties have been confined to throwing the already existing material into shape, supplementing it as far as possible by contributions obtained from district officers, passing the draft through the press, circulating it for revision, altering it in accordance with the corrections and suggestions of revising officers, and printing and issuing the final edition.

The material available in print for the Gazetteer of this district consisted of the Settlement Reports, and a draft Gazetteer compiled between 1870 and 1874 by Mr. F. Cunningham, Barrister-at-Law. Notes on certain points have been supplied by district officers; while the report on the Census of 1881 has been utilised. Of the present volume, Section A of Cap. V (General Administration), and the whole of Cap. VI (Towns), have been for the most part supplied by the Deputy Commissioner; Section A of Cap. III (Statistics of Population) has been taken from the Census Report; while here and there, and especially in the matter of ancient history, passages have been extracted from Mr. Cunningham's compilation already referred to. But with these exceptions, the great mass of the text has been taken almost if bot quite verbally, from Mr. Steedman's Settlement Report of the district.

The draft edition of this Gazetteer has been revised by Colonel Harcourt, Major Bartholomew, and Mr. Steedman. The Deputy Commissioner is responsible for the spelling of vernacular names, which has been fixed throughout by him in accordance with the prescribed system of transliteration. The final edition, though completely compiled by the Editor, has been passed through the press by Mr. Stack.

THE EDITOR.





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# Table No. I, shot . g LEADING STATISTICS.

		-	1000	
	8	63	*	2
		a	DETAIL OF TABSELS.	
DETAILS.	Distaict.	Jhang.	Chiniot.	Shorkot,
Total arman willes (1881)	6,007 ‡	2,365	0.00 G	1,220
1878)	643	263	101	186
	8,939	1,569	1,403	877
Irrigated aquare miles (1878)	- T	100	132	138
		10-2	13.0	9-6
Number of inhabited towns and villages (1881)	192	9333	150	p. 174
Total population (1881)	305,290	171,713	198,241	100.00
Rural population (1881)	35,315	160,084	10,731	4,621
Urban population (1881)	000	65	0.0	7.0
4744	63	10	555	76
Hindas (1881).	64,892	89168	15,369	17,355
	3,477	14. T.	6	3007
Jains (1881)	-		-	100
Musalmans (1881)	326,910	137,191	70.1.79	77,010
Average annual Land Revenue (1877 to 1881)"	4,08,420	PLANT	1,22,481	1,12,225
Average annual gross revenue (1877 to 1881) +	4,91,299	2		30.00

90 11235

Stamps, . Including 150 square miles of river hed.

### CHAPTER I.

### THE DISTRICT.

### SECTION A.-DESCRIPTIVE.

The Jhang district is the northernmost of the four districts of the Mooltan division, and lies between north latitude 30° 35′ and 32° 4′, and east longitude 71° 39′ and 73° 38′. It is in shape triangular, with its apex to the south-west and its base to the north-east. The acute angle of the apex is contained tween the districts of Muzaffargarh and Dera Ismáil Khán, and I base line marches with Sháhpur and Gujráuwála. The south-lern side is bounded for the greater part of its length by the Thtgomery district. The remaining portion adjoins Mooltan and zaffargarh. The north-western side, which is more irregular in fection than the south-eastern, is bounded by the Dera Ismáil an and Sháhpur districts. The length of a line drawn from the section point of the base to the apex where the three districts et, is about 124 miles; while another drawn at right angles to

AREA IN Tahsil. Square miles. Aeres. 1,453,822 1,513,842 2,271:00 ainiot 2,365:37 hang 1,220 34 orkot 781,017 iver Chenab, 76,005 96,076 150.12 Jhelam, 17,582 Ravi ... 2,489 6,007:43 3,844,757 TOTAL

on at right angles to the above, through Kot Isa Shah, Khiwa and Samundri, is a little under 70 miles in length. From the apex to the north-east and north-west base angles, the distances are respectively 152 and 124 miles. The area of the district is given in the margin.

The district is divided into three tabsils by two lines running light across the district parallel to the base. The north-eastern lortion so cut off constitutes the tabsil of Chiniot, the small triangle ying to the south-west that of Shorkot, and the central portion of the district that of Jhang. The uplands of the district are for the most part Government waste, and not included in any village boundary; indeed only some 40 per cent. of the total area is so included. The remaining 60 per cent. is inhabited only by wild pastoral tribes whose flocks graze at large over the wide-spread plains, while their habitations are mere temporary hamlets of thatched huts, to-day occupied and to-morrow deserted.

Chapter I. A.

Descriptive.

General description.

Luw

Chapter I, A. Descriptive. General description.

Some leading statistics regarding the district and the several tahsils into which it is divided are given in Table No. I as a frontispiece. The district contains two towns of more than 10,000

Maghiana Chiniet ... 12,574

The administrative head-quarters are situated at Maghiana, distant only some three miles from the town of Jhang, from which

Jhang stands fourth in order of area, and twenty-sixth in order of population, among the 32 districts of the Province,

			D PE	16
Town.	N. Latitude,	E. Longitude.	Feet above	1
Jhang (Maghiana) Chinict Shorkot	31° 16° 31° 44′ 30° 50′	72° 22' 73° 1' 72° 7'	570* 831 560*	

comprising 5.35 per cent. of the total area, 2:10 per cent. of the total population, and 1.52 per cent. of the urban population, of British territory. The latitude, longitude, and height in feet above the sea of the principal places in the district are shown in the

Physical formation.

The district is traversed by two rivers, the Chenab and the Jhelam. The Chenáb enters the district a little west of bi-section point of the base line, and after receiving the waters of the Jhelam, leaves the district about 12 miles east of the district ap ex. The course of the Chenab is steadily to the south-west, and river consequently divides the district into two very nearly eq portions. The Jhelam enters the district at a point about 56 mil distant, and very nearly due west from where the Chenáb fir touches the Jhang border. This river flows in a course nearly due south, and is absorbed into the Chenab 40 miles below where it leaves the Shahpur district. The tract between the two rive is a lesser triangle within the greater of the district boundar Physically the formation of the district is that of an old alluvis flat, the remains of which are found in the high plateaux of th Sándal Bár, the Kirána Bár, and the Thal, traversed by th river valleys of the Chenáb and the Jhelam. The Sándal Báis situate to the east of the Chenáb, the Kirána Bár between the Chenáb and the Jhelam, and the Thal west of the Jhelam. Between the Bár and the Thal uplands, and the lowlands or Hithár annually flooded by the rivers, there is an intermediate tract called the Utar. and there can be little doubt but that all three represent different ages of geological formation. The Bars and Thal are the oldest formations, and even they are of distinctly alluvial origin. These tracts are probably identical, and geologically synchronous with the great plain of the Punjab made up of the various Doabs, each consisting of an elevated tract sloping down to the river valleys

The Sandal Bar,

In the northern portion of the district, the Sándal Bár rises abruptly from the Utar, and the summit of the dividing ledge is

<sup>&</sup>quot;Approximate.

from 10 to 30 feet above the plain below. From the Gujranwala border to the village of Pabbarwála, the ledge (Nakka, Dhaya, Dah) runs near and parallel to the river, and forms the boundary between the lands included in villages and the Government waste. South of Pabbarwala the ledge runs at some distance from the river into the Government waste, and does not any longer form a quasi boundary between private property and that of the State. As one travels south, the bank imperceptibly disappears, until at length it is impossible to say where the Bar ends or where begins. There is, however, a gradual rise in the country from the river to the Bar, evidenced by the increasing depth to water as the river recedes, and also by the direction of the surface drainage. The whole of the vast extent of country included within this Bar is, with a few trifling exceptions, the property of Government. The private rights that are now enjoyed by the sinkers of wells on leases from Government will be separately noticed. There are no village estates in this tract. The only cultivation that exists is attached to wells that are held under lease from Government; or, in a year of good rainfall, patches of rain cultivation will be found scattered sparsely here and there. In point of soil the northern portion of the Bar is generally good. There is a marked and obvious deterioration to the south. The most general distinction between good and bad land is that between sweet and sour. No grass grows kindly on kallar, and practically the quality of the Bar soil depends solely upon its power of producing pasturage. Among the sweet soils it is noticeable that a good loam with a slight sprinkling of sand on the top, as is often seen in the Bar, makes the best grass land. The reason is at once apparent. When the first summer rains fall, the ground has been parched and burnt by the heats of May and June into the consistency of iron. Last year's grass has been grazed down to the roots, and the surface is almost perfectly bare. Besides the natural power of absorption possessed by the soil, there is nothing to prevent the rain as it falls from draining away into the nearest depression. Where the soil is sandy and friable, the rain sinks where it falls; but on clayey lands it does not penetrate far into the soil, and is either carried away by surface drainage or evaporated by a burning sun. Not only is the soil poorer and kallar plains more frequent in the southern portion of the Bar, but even the better class of grasses, such as Dhaman, are hardly ever found. Chhembar is about the only good grass that can be got to grow on kallar. The other natural productions of the Bar are the pilú, the jand, the phog, and the karil, with here and there a few faráshes growing where surface drainage collects, and various salsolaceous plants. The khár lání, from which sajjí is made, is rarely found north of the road from Jhang to Ghapni. There are a few small hills near and between Sángla and Sháhkot in the north of the Bar.

The Kirána Bár, a portion of the Chaj Doáb, takes its name from the Kirána hills found here. These hills are not, as generally supposed, and as stated by Mr. Monckton, outliers of the Salt Range. The following description is taken from Medlicott and Blanford's Manual of Geology:—"Far to the north-west of the

Chapter I, A.

Descriptive.

The Sándal Bár.

The Kirdna Bar.

Chapter I, A. Descriptive. The Kirana Bar.

"Hissár country some hills occur on both sides of the Chenáb at Chiniot and Kirána. These hills are only 40 miles distant from the Sait Range, but the rocks are totally different from any that occur there, and correspond well with the character of the transition rocks of the Arvali series. They consist of strong quartzites with associated clay slates, forming steep ridges, with a north-east to south-west strike. The highest summit is stated by Doctor Fleming to be 957 feet above the plain. The oldest rocks of the Salt Range are probably very much younger than the strata of Kirána." The rocks at Sháhkot and Sángla belong to the same formation as the Kirána hills. Just above Chiniot the Chenáb runs most picturesquely through a couple of gorges if these hills.

The lands of the Kirána Bár to the south and east of the hole are of superb quality. After slight showers of rain, the where country is carpeted with grass. Better rain crops are grown hids, than in the Sándal Bár. To the west of Kirána and westwaroil until the villages near the Jhelam are reached, the Bár Bár deteriorates, and more and more kallar is found. The Kirána Edal is demarcated from the Utár by the same fall or slope as the Sánges Bár. Generally this ledge forms the boundary between the villaged and the Government waste. But few villages possess lands bevir is the high bank, or Nakka, as it is called. The flora of this Ba the south-west of Kirána. Some peculiar grasses grow on and a the hills, that are held to be of most excellent quality.

The Thal.

The strip of Thal attached to this district is of inconsideracyly area, 246,554 acres. To the north the strip is exceeding ng narrow, but it widens out considerably to the south of the Jhough and Dera Ismail Khan road. The Thal apparently is a hi or plateau similar to the Bars, with this difference, that it is more he less completely covered with hills and dunes of blown sand. Tad soil below the sand is good enough, but it only crops out here at e, there. Where the Jhelam enters the district it runs alongsid to and is cutting away the high bank of the Thal. Thence, du t west as far as the Indus Kachhi, there is nothing but the mos I sterile waste of monotonously parallel sand dunes. In the Tha. attached to the Jhang district there is little or no cultivation The distance to water is so great as to render well farming much less profitable than in the portions of the Thal nearer to the Indus. The aspect of this tract is dreary in the extreme. Rolling sand hills, running in an almost uniform direction, alternating with hollows of fairly good soil studded with pllú bushes, are the only features of a landscape unsurpassed for its monotony. The one prevailing tint of the soil is a light reddish-brown, which after rain becomes rufous. The only greenery is that of the pilu bushes and trees. There is no land or land. Here and there phog and karil bushes are seen, but the distinctive feature of the Jhang Thal is the pilú. The effect of the Thal is one of unrelieved depression. The Bar has a directly contrary influence. Grass grows luxuriantly in the Thal after heavy rain, but it is seldom seen in this happy state.

The tract intermediate between the uplands of the Bár and That and the lowlands (Hithar) of the river valleys presents considerable variety. This tract is the more interesting, in that it contains the villages that pay the land revenue of the district. The The tracts between characteristics of the tracts intermediate between the Sándal Bár and the Chenáb, the Kirána Bár and the Chenáb, the Kirána Bár and the Jhelam, and the Thal and the Jhelam and Jhelam-Chenáb, are sufficiently strongly marked to render separate descriptions necessary.

Chapter I, A. Descriptive.

and the rivers.

The tract between the Chenáb and the Sándal Bár extends Between the Sándal from the borders of Gujranwala to the villages on the Ravi. It Bar and the Chenab varies in width from four to sixteen miles, but the average distance from the river to the Government Bar is usually eight miles. Signs of its fluvial formation are to be seen everywhere. As in the Bar, so in this tract, the gradual deterioration as one goes south is distinct and obvious. From Gujránwála to the boundary of the Jhang tabsil, the difference is not so clearly marked; but thence southwards, the inferior quality of the soil, the infrequency of good grass-land, the constant occurrence of kallar flats, at once strike the observer. Mr. Monekton writes :- "The Jhang district may " be described in general terms as a region destitute of living brooks " and shady groves, and with the exception of the rivers Jhelam and "Chenab, and the fringes of cultivation on their banks, the country "is a dry waterless tract, covered with a sparse jangal of bushy trees. The march from Khiwa to within a mile of Jhang stands " probably unrivalled in the world for its combination of the most "disagreeable features a landscape is capable of affording." The best way to describe this tract and its varying character is to take three sections from the river to the Bar, one for each tabsil. The starting point will be the bank of the Utar, beyond which the river floods have been never known to pass. In Chiniot, with an unimportant break here and there, this bank is bordered by a fringe of well cultivation that constitutes the prettiest and most fertile portion of the tahsil. Each well is bowered in a cluster of trees, generally kikars and shishams. Near the bank the cultivation is almost continuous, and there is hardly any patch of waste. Passing onwards the wells open out, and the intervening patches of waste become more frequent. These wells too are good in quality, and some discretion has been exercised in selecting their sites. Beyond these wells comes a stretch of waste land, where the cattle of the village graze while at home. The soil varies. Depressions with a clayey bottom, uplands of light loam, sandy tracts, with here and there a sand-hill, and patches of kallar, continually alternate. Then come the wells of the villages beyond the riverain estates, and beyond them again are the villages lying under the Bar. The wells are scattered, and each is a small hamlet in itself. The only wells whose cultivated lands adjoin are, as a rule, round the village, if there is a village. The waste between the wells is of good quality, and produces, with the assistance of wonderfully little rain, first-rate crops of grass. Next come the villages under the Bar. Here the distance to water is great, and without rain, or the assistance of surface drainage, they do but poorly. Consequently the

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Between the Sándal Bár and the Chenáb Hithár lands.

wells are found in lines parallel with the bank of the Bar, and the zamindars use every contrivance to conduct on to these lands the silt-charged water that rushes down from the Bár uplands after rain. The aspect of this country and its wells is, as may be easily supposed, subject to the greatest changes. In seasons of good rainfall, no wells or tracts look so bright and smiling. In seasons of drought, a more desolate country and wells more poverty-stricken in appearance cannot well be imagined. The areas of the wells are lying untilled, parched, and hardened by a relentless sun. The surrounding waste lands afford not one blade of grass. Everything presents a dull brown scorched appearance. In Jhang the fringe of well cultivation along the flood bank betrays by its many breaks and its irregularity in breadth, that the soil is not what it is in Chiniot. Nor are the wells in themselves so prosperous in look as those lying farther north. The farming is responsible for this. There is not any very great difference in the soil where the wells are placed. Where there are no wells, the Utar plain above the river lands generally consists of a kallar flat, its uniformity broken here and there by small mounds that have collected and are now forming round the stunted karir or jand bushes. There is also a thick growth of land or land, or of both intermixed. The wells beyond are more scattered, as good land is scarce. No use is made of surface drainage. The wells and country are uninviting. There are few trees round the wells. There is but little grass in the waste. Láná is the only plant that really seems to enjoy the near and climate. Khar is found in the south of the tahsil. It seem be a plant somewhat capricious in its choice of locality. The up ble part of Shorkot is very similar to the lower portion of Jhan Kallar, láná, lání, and khár are more diffused, and good grass la ly is less common. Traces of river action are here more numero ng Depressions and tracts covered with sand dunes are met with me frequently. Traces there are not some formula of the sand dunes are met with me of the sand dunes are me of the sand dunes are met with me of the sand frequently. Trees there are none, except here and there, near sor depression in which water collects during the rains. To the soul the Chenáb widens out, and the Utár tract becomes very narro and the soil in parts reaches a climax of sourness. Between th Utár land and the tract that is ordinarily flooded by the Chenar comes a strip of country peculiar to the southern half of Shorkot It is evidently a recent river formation. The soil is light and sandy. Water is very near the surface; and where not cultivated the ground is covered with a dense growth of sar grass.

Between the Kirana Bar and the Chenab Hithar,

The country on the right bank of the Chenáb, from the river to the high bank of the Bár, is very similar in character to that on the other side. Near the river there is the same band of well cultivation, gradually widening out to the scattered wells and large stretches of waste of the tract adjoining the Bár. The high bank of the Bár dies away a little distance east of the boundary between the Chiniot and the Jhang tahsíls, opposite the village of Kot Mohla. To the portion of the Utár lying between this ridge and the Chenáb, the description of the country cis-Chenáb may be unreservedly applied. Further west the aspect of the country, here called the Sháh Jíwana taalluká, changes. Speaking generally, the face of the country is either half concealed by a sparse growth

of sar grass, or appears revealed in all the ugliness of a kallar plain. Mr. Monckton writes of this tract :- "Here the soil is singularly "sterile: for miles one may ride over tracts impregnated with \*\* saltpetre, and producing only dirty coarse grass, unfit for any use-Bar and the Chenab at the purpose." The wells, as might be expected in a tract of this Hithar. description, are found scattered here and there over the face of the There are a few well-to-do villages, but most are poor, badly farmed, and owned by extravagant thriftless Sayads. This inhospitable waste does not end until the Jhelam villages are reached. The lower part of the triangle contained between the two rivers is termed in common parlance the Vichanh. Towards the apex of the triangle the country may be described as a dorsal ridge, covered with efflorescent saltpetre, between the fertile lowlying alluvial lands of the two rivers. This back-bone of extra sour soil extends as far as Kadirpur Bakhsha, and its continuity suffers but very few and very slight breaks. The country round Kot Isa Shah, between the Jhelam and the tongue of Bar that runs down southwards, is probably the most fertile and most picturesque in the district. The soil is good, agriculture flourishes, and trees are abundant for some distance away from the river. Beyond comes another infertile tract, containing much kallar, and then the Bar is reached. Here there is no high ridge well defined. The expanse of kallar is broken in some parts by curiously fertile patches. Such an one is the village of Bhairo, bounded on the east by the Bar, and on the west by a kallar plain that for extent and nakedness is unequalled.

The tract between the Thal and the Jhelam is called the Kachhi. Kachbi is also the name of the alluvial lands of the Indus valley, as distinct from the Thal and Daman. The word means a country that is contained within some strongly marked boundary, here the Thal. It is distinct from and must not be confounded with the Urdú kachcha-(unripe, unformed). To the north the Jhelam is now flowing immediately under the Thal, and the higher portion of the Kachhi, i. e., that out of reach of the Jhelam and Chenab floods, does not start fairly until the village of Sherowana is reached. Thence, as far as the Muzaffargarh boundary, the tract of Kachhi runs unbroken. This strip is, on an average, about nine miles broad. As is the case with the whole of the district, the soil gradually deteriorates to the south, and becomes worse on the Auzaffargarh border. Here the only cultivation to be found, accept a well or two, lies immediately under the Thal bank in a depression. The wells are of a fairly prosperous appearance. A stitle talla grass, and a good deal of sar, grow in and near the depression. Between the Thal and the river the country is almost desolate. Rolling sand dunes, on which a few scant patches of sar grass only thrive, flat plains of the hardest and most unfruitful clay, strips glistening with the salt efflorescene, and patches of black kallar, locally known as bish (-(poisonous), from its deadly effect on all vegetable life, alternate in dreary succession. Vegetation is represented by a few starved karir bushes and lani plants. Northwards there is a decided improvement in the soil. Notably there is very much less kallar. Near the river the well cultivation

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is dense, the country is well wooded, and agriculture flourishes. Towards the Thal cultivation becomes sparser. The wells are found in lines, the direction being determined by the presence of some depression, into which the surface drainage of the country finds its way. The soil is more fertile and cooler than the higher-lying lands. The depression under the Thal here again is studded with wells. The soil is a good loam of a reddish tint. Near the river karir is the predominant scrub, while near the Thai the jal bushes are so numerous and so large as to form a stunted forest. The separate distribution of these two shrubs is very marked. Where the two zones meet they are found intermixed; but near the Thal hardly a karir, and in the river villages hardly a pilú, will be found. The absence of grass is the distinguishing feature of the Kachhi. In the cold weather grass sufficient to feed half a dozen horses certainly could not be procured, and probably does not exist. The bareness of the surface is most remarkable. The soil is clayey. Water does not penetrate, but drains away into some depression, where again, when the water is evaporated, the salts left behind prevent the growth of any vegetation. There is very little uncultivated land anywhere in the Kachhi that is free from the kallar taint.

The Upper Chenab valley.

Mr. Monckton in a few happy sentences gives a description of the Chenab that cannot be improved upon :- "The Che " is a broad shallow stream, with a sluggish current and a lie "tious course. Its deposits are sandy, but its flood is exten-and from the loose texture of the soil on its banks the mois "penetrates far inland." The above description was made v ng reference to the upper Chenab in tahsil Chiniot. Of the love Chenáb, Mr. Monekton wrote :- "The country on the banks "the Chenab is generally low and moist. The river flood exte "in many places as much as three and four miles inland at its high "rise." The great difference in the character of the Chenab abo and below its junction with the Jhelam has never been thorough recognised. Above the Trimmú ferry the Chenáb is confine within well-marked banks, over which its waters rarely, and on, at a few known points, ever spill. The country between the two containing banks varies considerably in width. Where the rive has cut away a larger slice of the Utar, the banks become necessarily farther apart. The width and depth of the river bed has naturally an important effect on the extent and height of the floods. Often do the zamindars complain that the bed is far too big Where the banks are near and the real bed of the river is not excessive in width, the greater portion of the lands between will be flooded annually. Where the distance from bank to bank is considerable, and the river channel runs in a tortuous course through the centre, the action of the floods becomes uncertain. places the belá land between the river and the high bank is only naturally inundated when the set of the stream is directly towards When the course of the river is less favourable, the needful supply of flood water is obtained by throwing embankments across the nálahs by which such lands are invariably intersected, and thereby raising the water level. The deposits of the upper Chenab

are usually very sandy. The zamindars have a saying that "it Chapter I, A. takes gold and gives copper," apropos of the difference between the land carried away and that thrown up. The upper Chenab deposits require successive deposits of silt before they become fit The upper Chemab for cultivation. The inundations of the Chenab appear to be fairly regular. Mr. Cust's picture of " wells, villages and culturable area being carried away by a merciless torrent" is an exaggerated and unfavourable representation of the Chenab. It does possess enormous powers of erosion, but, except under particular circumstances, it takes years to cut away a village.

From the point of junction with the Jhelam the breadth annually inundated begins to expand, until in the lower portion of the Shorkot tahsil, near Ahmadpur and Jalalpur, the river spreads out almost in fan shape, and its water flows far inland. Large islands, belds or bind's as they are called, form more frequently than to the north. The Dingi belá opposite Ahmadpur has already a length of 8 miles, and exhibits signs of further growth to the south. The aspect of the sailab lands adjoining the river is much the same on the lower and upper Chenáb. Along the bank is found a dense belt of dark lai (Jhau or pilchhi) jangal, often so thick and strong that a horse could with difficulty pass through, This is intersected by numerous channels of the river, dry during the greater portion of the cold weather, but filling with any slight rise in the river. There is but little cultivation, and what there is consists of patches of wheat, massar, peas, or gram scattered here and there amongst the underwood. The soil is generally good, and has but recently accreted. Still its quality varies greatly. In one place the accretion has taken place only lately, and more silt must be deposited before the soil can be termed good. In another spot the soil was formed long ago; but it is still little better than a sand bank covered with a thin layer of clay, sometimes hardly more than a mere film, and here and there the sand itself crops out. Beyond this strip of jangal and cultivation intermixed, and between it and the bank which bounds the inundations, come the cultivated lands of the alluvial tract. The soil varies from stiff clay to sand, but is generally a good light loam, easily-worked and retentive of moisture. Rabi crops are chiefly grown, or the higher and lighter soils being devoted to the production of autumn crops. Below Shorkot the bank of the Utar is either wanting, or else is situate at some distance from the stream. Instead of finding a comparatively narrow strip of cultivation between the new deposits and the Utar bank, one is at once struck by the absence of any high land beyond which no flood ever passes. The country is traversed by numerous channels that carry the flood water far inland. There are broad expanses of rich sailab land near the river; but these do not extend far. Beyond, high-lying strips and patches of waste land of a sandy texture, covered with a thick growth of sar grass, become common. The cultivated lands are found in between, wherever there is a depression that is reached by the flood water. As the river recedes, wells become more numerous. Near it there are but few. In February or March the view of this cis-Chenab portion of the district from an

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The lower Chenab valley.

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The lower Chemib valley.

old mound or eminence has a peaceful beauty peculiar to itself. A sea of yellow grass rippling in the breeze, edged on the west by a silver ribbon of river, are the features that first strike the eye. Dotted over the surface are dark clumps of trees round the wells, and here and there a few groves of date palms. Towards the river long stretches of green wheat are to be seen, while nearer in the cultivation is hidden from view, or only peeps out near a well or where a piece of sailab cultivation larger than usual is found. Beyond the river rise dark against the horizon the trees growing round villages that fringe the further bank. Trans-Chenab from the junction of the rivers to Ahmadpur, the sailab lands are bounded by a high bank separating them from the Kachhi tract described above. At Ahmadpur the level of the country seems to sink, the bank to disappear, and the flood water of the river passing to the west of Ahmadpur finds its way by depressions and canals into the Kandiwal lake (jhd) lying immediately under the high wall of the Thal.

The Jhelam valley.

The Jhelam has a course of about 45 miles in length from the point where it first touches the Jhang district down to its point of junction with the Chenab, the Domel as it is called. As compared with the Chenab, the Jhelum contains a much smaller volume of water, and flows in a much more confined channel. The area subject to inundation from the Jhelam is much less extensive, though in flood season the rise in the river must be considerably higher than that of the Chenab. The erosive action of the Jhelam is quite as powerful as that of the Chenab, but its deposits are far richer in argillaceous matter. There is more mud and less sand. A deposit of Jhelam silt often bears a good crop of coarse rice the first year it is formed. The country on the banks of the Jhelam is fertile, well wooded, densely cultivated, and supports a larger population than any other portion of the district. There is hardly any waste land. The Jhelam being a narrow stream, islands (belás or bindis) are seldom met with.

The Ravi valley.

The Ravi, which is almost everywhere fordable, first touches the district at a point only 11 miles from where it falls into the Chenáb, but the length of its singularly tortuous course between these two points must be nearly double that distance. Judging from the description of the Ravi given by Mr. Purser in the Montgomer Settlement Report, the character of the lower Ravi varies consider ably from that of the upper. On the Jhang side of the river th Ravi sailab lands are separated by a very high bank from the land of the Utar. The outline of this bank is most irregular in it twists and turns, carved out as it has been by the action of thi most erratic river. Below this bank lies a considerable tract of be of a very uneven surface and quality, and intersected by numerous old channels of the Ravi. These are called Budh, or Dhan, and in the cold weather such of them as have not subsequently silted up and become dry, afford both water to the jhalars and excellent duckshooting. At the end of one cold weather it is impossible to predict where the river will be at the beginning of the next, beyond that it will be below the Utar bank. Its course is the most capricious and inconstant of all the rivers of this district. Ordinarily it does

not, like the Chenab, flood the whole of the sailaba lands. The extent and the locality of the floods depend solely upon the direction of the river. If it is flowing under the left bank, the chances are that the lands under the right bank will not get a drop of flood water, except the lowest-lying strips in the old channels of the river. The Ravi alluvial lands are composed of a stiff soil, very productive if it gets flood water, but hardly pervious, and but little benefited by percolation except where it is unusually sandy. The stream runs in a deep bed. The highland between the Ravi and the Chenab is curiously similar to that between the Jhelam and The same bare unfruitful plain with a surface stratum of kallar efflorescence is found. The presence of much coarse dabh grass, a few patches of sar grass, and some infrequent lai bushes. give the Shorkot Vichanh a slightly more hospitable aspect. About two miles from the Rávi and close to the Mooltan border, a thick forest of jand is found. This forest extends some way into the Mooltan district. Only a small portion is included in Jhang. The ground appears to be nothing but kallar of the rankest nature, yet the jand grows with a luxuriance never seen elsewhere. The site is apparently a depression, for not only does water flow down from the Utar and collect here, but sometimes the flood water of the Rávi, spilling over the bank above Chícháwatni, flows across some fifty miles of country, and finds its way by here into the Chenáb. The Ravi side does not present that appearance of fertility that characterises the Jhelam valley and the alluvial lands of the Chenáb. The upland wells are extremely poor, and there is much kallar. The Hithar lands betray the uncertainty of the supply of flood water.

Irrigation works of modern date in Jhang compare but unfavourably with the remains of those of the past. The only canal now at work is one in Shorkot, called the Wakefield Wah. Its history is apparently this :- In 1872 Niámat Rái devised a scheme for cutting a canal from Buddhowana to Manga Afghanan. Mr. Wakefield approved of the plan, and by 1874 a canal sixteen miles long had been excavated at their own cost by the zamindárs of the villages through which it passed. The canal has not been doing so well during the last few years. This is due partly to a change in the Chenab stream, but more so to lack of management. Annual clearances are effected under the supervision of the Tahsildar, but proper distribution of the water there is none. The villages near the head not only take more than their share, but allow the water to run waste in a scandalous manner. There are a few other cuts from the river in various villages made to assist and guide the flow of the flood water inland, and they are welcome signs of the birth of some enterprise among the zamíndárs. These ditches are to be found at Basti Varyám and Jalálpur, Kakkúwála, Ahmadpur, Sultán Báhn, and Havelí Bahádarsháh in Shorkot. In Jhang there is one made by the Chelás of Wású Astána, and another started by Mr. Wakefield near Jhang that has never flowed since the first year. In Chiniot there are about the same number.

The old canals are three. In the Vichanh the remains of an old canal of considerable size are to be seen. Local tradition says

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Old canala,

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that it was a portion of the Raniwah canal that leaves the Jhelam in the Bhera tahsil of Shahpur. Nothing is known as to when the canal was constructed. The story goes that it was the work of a rich banker of Bhera, whose daughter was married to a resident of one of the Jhang Vichanh villages. The daughter, when she reached her husband's home, complained of the scanty supply of water, and her father at once cut the canal to put an end to her trouble. Another version is that the daughter vowed that she would not marry the man to whom she was betrothed, unless she could get to his house by water without putting foot to the ground ; so her father forthwith proceeded to excavate this canal. The remains of the canal opposite Kádirpur Bakhsha are perhaps in the best state of preservation, and show that it was a work of some magnitude, and aligned considerably above the level of the country. In the Shorkot tahsil the banks of an old canal that left the Chenáb a short distance east of Mírak Siál are still recognizable. The people have no tradition whatever as to its construction. The fact that the Chenab must have been running at a very much higher level than now, and in a very different bed, before water could have been supplied to the canal, is the best evidence of its antiquity. The head of the canal takes off the old bed of the Chenáb lying between Mirak Siál and Káim Bharwána. into which now-a-days the water of the river in highest flood hardly penetrates. All vestiges of the canal are lost about a mile from the village of Shorkot. The third canal is that of Uch. constructed by Fakir Gul Imam. It leaves the river Jhejam close under Machhiwal, and tails off into Uch. It ceased to run about the end of the 18th century, after flowing some sixty years. There are also traces to be seen in the Bar of an old canal Nannanwa. concerning which little or nothing is known by the people.

Rainfall, temperature, and climate.

The climate of Jhang does not differ from that of the remainder of the southern Punjab. Mr. Blanford states that during June. July and August the highest mean temperature prevailing in any part of India is that of the comparatively rainless tract almost Mooltan, Montgomery and Dera Ismail Khan. The intensely bot weather commences shortly after the 1st June. The kikar and ber trees lose all their leaves in the burning heat. There is generally a fall of rain by the 15th July. A hot wind blows more or less steadily from the south and south-west during the month of June, until the advent of the monsoon current is feld and then the winds are very variable. The nights are, if not cool, at least comfortable up to the last ten days of June, and then day and night are both equally intolerable. Jhang after general rain has a most pleasant climate. The thermometer falls, and there is little or none of that close muggy atmosphere that characterises the rain in stations with a large rainfall and moist soil. Calms are rare. If the rain ceases, as it sometimes does, or if the breaks are long, the heat becomes again intense, and hot winds have been experienced in the latter part of July. There is always a change in August in this part of the Punjab. The nights and mornings get cooler. If there is no rain in August and September, this cooling proceeds very gradually, until the cold weather commences

and pankhás are abandoned about the 10th October. With rain about the middle of September, the cold weather comes in much quicker. The cool bright days, the frosty nights, and the crisp fresh mornings of the cold weather of the Punjab proper, are to be found at Jhang as elsewhere. October and November are rainless. During the last week in December and in January and February rain usually falls. By the end of March the weather grows perceptibly warmer. April is hot and dry; May is hotter and drier. Table No. III shows in tenths of an inch the total rainfall.

Year. Tenths of an inch.

1862-63 . 228
1863-64 . 185
1864-65 . 135
1866-66 . 117

registered at each of the rain-gauge stations in the district for each year, from 1866-67 to 1882-83. The fall at head-quarters for the four preceding years is shown in the margin. The distribution of the rainfall throughout the year is shown in Tables Nos. IIIA and IIIB.

The district is a particularly healthy one. There is ordinarily but little fever. Cholera seldom appears, and never badly. The drinking water at Jhang, and generally along the banks of the Chenab, is excellent. Goitre, however, is prevalent in the neighbourhood of Chiniot and the tract lying to the north-east of that town. Tables Nos. XI, XIA, XIB and XLIV give annual and monthly statistics of births and deaths for the district and for its towns during the last five years; while the birth and death-rates since 1868, so far as available, will be found at pages 42, 43 for the general population, and in Chapter VI under the heads of the several large fowns of the district. Table No. XII shows the number of insane, blind, deaf-mutes, and lepers as ascertained at the Census of 1881; while Table No. XXXXVIII shows the working of the dispensaries since 1877.

Chapter I, B.

Geology, Fauna and Flora.

Rainfall, temperature, and climate.

Discase.

### SECTION B.-GEOLOGY, FAUNA AND FLORA.

Our knowledge of Indian geology is as yet so general in its nature, and so little has been done in the Punjab in the way of detailed geological investigation, that it is impossible to discuss the local geology of separate districts. But a sketch of the geology of the Province as a whole has been most kindly furnished by Mr. Medlicott, Superintendent of the Geological Survey of India, and is published in extense in the Provincial volume of the Gazetteer series, and also as a separate pamphlet. And the following discussion, taken from Mr. Steedman's Settlement Report, is of such an interesting character that it is inserted here:—

"It has always been to me a curious problem—the origin of this Thal sand. If there were any continuous stretches of sand hills on the laft bank of the Jhelam, the question might be more easily understood, but there are not. I only know of one small portion of the Vichanh Bar where there are sand dunes, and this is due east of Kadirpur Bakhsha. To the east of the Chenab, below its junction with the

Geology.

Geology, Fauna and Flora. Geology.

Jhelam, there are no doubt sand hills here and there, such as are met with east of Gilmála, in Pirwála and elsewhere; but otherwise the tract in no way resembles the Thal. The sand hills of Gilmála and Pírwála seem to have most probably been formed from sand deposited in an old bed of the Chenáb that is found near. The remarks at pages 436-439 of the Manual of Indian Geology should be consulted for a further insight into the formation of deserts such as those found in Sind and Rajputana. which do not apparently differ much from the Thal, except that there the direction of the parallel lines of sand hills is north-east and southwest, while, according to the Shahpur Settlement Report, p. 11, they here run north-west and south-east. Native traditions attribute the presence of the sand to the action of the strong south wind that prevails during the greater part of the year, in blowing up the sand of the Indus bed. The authors of the Manual write of the Rajputana desert :- 'It appears difficult to believe that all the sand found in the desert can have been derived from the Indus.' The same difficulty occurs in respect of the Thal sand. 'The most probable theory appears to be that the Ran of Cutch, and the lower portion of the Indus valley, have been occupied by the sea in post-tertiary times, and that the sand of the desert was derived from the shore. The most sandy tracts, as has also been shown, are on the edge of the Indus valley \* \* \* and these portions of the country were all probably situated on the coast.' 'It is probable that the central portion of the desert was land, whilst the Indus valley, the Ran (of Outch) and the Luni valley were occupied by sea.' The accumulation of sand in a desert region is evidently due to the low rainfall and the consequent absence of streams, the effect being intensified by the accumulation of sand and the porous nature of the resulting surface. In other parts of India, the sand blown from the river channels or the sea coast is either driven by the wind into other river channels, or is swept into them again by rain.\*

"It is easy to follow these remarks in connection with the presence of sand in the upland of the Sind Saugor Doab, but what in the case of the Jhang district requires an explanation, is the comparative absence of sand in the two neighbouring Doabs between the Jhelam, Chenab and Ravi rivers, in fact the comparative absence of sand between the Thal and the Bikanir desert on the east of the Sutlej. The alluvium of the Kirána and Sándal Bárs and that of the Sind Saugor Thal on which the sand dunes rest, are probably of the same age, though I speak with extreme diffidence; and if this is the case, why are there not the ame accumulations of sand? Did the sands of the Bikanir desert and hose of the Thal once join, and have the Punjab rivers since cut their way through them, the uplands of the Bar having been first deposited and subsequently cut through at a later period? Where the Jhelam enters the district it runs alongside, and is cutting away the high bank of the Thal. Thence due west, as far as the Indus Kachhi, there is nothing but the most sterile waste of monotonously parallel sand dunes. Cross the river, and with the exception of the few mounds of sand mentioned previously, a flat plain of stiffish soil, here and there lightening down to sandy loam, is traversed until the Chenab is met. It seems possible to account for the absence of sand by the decreting action of the river on the hypothesis that the sands of the Bikanir desert and those of the Thal were in past ages continuous, and that the Chaj and Rechnic Doabs, lying as they do at a lower level, were subsequently deposited by

<sup>\*</sup> Mr. Medilicott writes.—"These remarks, so far as they refer to sea, can have no application to any Punjab ground. This sand is essentially recent; and its partial distribution may, I think, be mainly attributed to the capricious action, not yet fully understood of the wind."

fluvial action that had first eroded and carried away the sands. This, however, gives a higher\* position in the geological era to the Sind Saugor Doab than is allowed by the Indian geologists; and of course my suggestion is little else than a guess suggested by the levels, the lie of the country, and the identical character of the sand in the two deserts, separated from each other by the Punjab portion of the Indus drainage system."

There are no mines in the district. There are several quarries Mineral products. in the hills near Chiniot, where millstones, pestles and mortars, dabgars' and mochis' blocks, kneading boards, oil pans for lamps, &c., are made. There are no other metal or mineral products. There are no kankar beds in the district. The Kirána hills are stated to contain iron ore, but it has never been worked. Some freestone was quarried near Chiniot and sent to Lahore for use in some of the Government buildings.

- Among the trees of the district the kikar (Acacia Arabica) is Trees. The kikar. the most common and the most useful. It grows most luxuriantly in the Hithar villages on both the rivers, but is found in greater quantities on the Jhelam and upper Chenáb than further south. Kikar wood is of excellent quality, and is used for almost every agricultural purpose. More especially it is almost invariably used for the horizontal and vertical wheels, the axle of the vertical wheels, and other portions of the machinery of a Persian-wheel. As a young tree, it is exposed to some danger from frost, but as it ages, cold has less effect. It grows wonderfully quickly, and this is the principal reason why zamindars prefer it to the shisham (tahli). A number of young kikars will be found on almost every well scattered over the area attached, but the shishams will only be close round the well. The pods of the kikar and the loppings are eaten greedily by sheep and goats, and in years of drought the tree is backed and pruned in a most unmerciful manner. The shade of the kikar is peculiarly harmful to vegetation. Nothing will grow under it. The bark is used for tanning and distilling spirits. The cypress-formed or Kabuli kikar (Acacia cupressiformis) is also found scattered over the district; it is valued less than the kikur. The shisham or tahli (Dalbergia sissu) is found The Shisham. wherever there is cultivation, but is more abundant in the lowlands fringing the rivers than in the Utar. The tree does not do well until its roots get down to water, and this takes place much sooner in the truct near the rivers than in the uplands. Shorkot way, almost every well in the Hithar boasts a clump of shishams, and many are extremely fine trees. There are apparently two varieties of the tahli, - one growing straight, and the other with the boughs drooping. The Ber (Zizyphus jujuba) is a hardy tree, and will The Ber, Siris and grow anywhere, though it prefers the soil of the Hithar. It is considered unlucky to cut down a ber, and its fruit, when ripe, is gathered by every passer-by. The fruit is highly esteemed and largely eaten by the poorer agriculturists. Careful housewives

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<sup>\*</sup>Geologista would say "lower," i. c., "older." But Indian geologists have fixed the relations referred to by the use of the term "old alluvium" for these high-lands, the remains of the prehistoric forest-clad plains, before the concentrated drainage waters were driven to pray upon these deposits and form the "new alluvium" or river valleys.—Editor.

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Geology, Fauna and Flora.

The Ber. Siris and Furdsh.

The Jand.

The Jall or Pild.

collect and store large quantities of the berries when the crop is a good one. The fruit has a not unpleasant rough acid taste. It ripens about March. The siris (Acacia speciosa) is rarely met with, and only near wells. It is a useless tree, but affords a good shade. The ukánh or khagal, or farásh (Tamarix orientalis) is not common anywhere except in the Bar and the Kachhi. Those in the Kachhi are of a gnarled stunted growth, and never attain any size except near wells, and the zamindar does not often choose to grow the ukánh on his cultivated lands. In the Bár, wherever water collects or the soil is better and more moist than usual, the ukánh is sure to be found. A typical instance is to be found on the Chichawatni road to the east of Roranwali. The wood of the ukanh is hard, and is used in a variety of ways. Lai, the jháú of Hindustán, is found in great quantities along the river banks. It is used to make the wattle cylinders with which kachcha wells are usually lined. Near Jhang and Maghiana it is cut and used for firewood. In the Jhang tahsil the sohanjna-horse radish tree (Moringa pterygosperma)—is found on almost every well. The fruit is preserved and used for chatris and as a pickle. The tree is pruned regularly every year until it resembles a polled willow more than anything else. In Shorkot and Chiniot this tree is found, but not so abundantly. In the Civil Station some very fine old jand (Acacia leucophelea) trees are to be seen. Elsewhere the stunted bush is usually the form in which this tree presents itself. A jand shrub is always a sure sign of good soil, whether in the Hithar or Utar. It is unusual to find jand scrub in the Hithar, but there are a few such tracts in the southern tabsil. Like the ukánh, the jand in the Bár prefers a moist lowlying position The jand is usually a bush, but in the more favourable localities it becomes a small tree. The peculiarly dense growth of jand jangal in the south-east corner of the Shorkot tahsil has alleady been noticed. Here, though the surface of the soil is covered with kallar, the soil itself is good. The kallar has been washed on as a foreign substance in suspension and solution by the Ravi flood water or by the drainage from the saline upland of the Bar, and subsequently deposited by evaporation in or on the soil. The jand makes very good firewood, and affords capital grazing to carels. sheep, and goats. The wan, jal, or pila (Salvadora elevides) -by all three names is this tree known-is found in every product of the district. Individual trees of the largest size are found in the Kachhi and the Bar. There are two kinds of jal-the sweet and the sour, but the sour is very seldom found. The leaves of the kaura jal are darker in colour and longer and broader than those of the miththa jal. The tree is much used by the cattlethieves of the Bar as a place of concealment for stolen animals. It is impossible to discover the animal except by the closest. scrutiny, and precautions are carefully taken against any movements on his part. The roots of the tree are the favourite home of the cobra. As fuel the wood is detestable. It leaves an enormous quantity of ash, has an extremely disagreeable smell, and gives but little heat. Its leaves are the favourite diet of camels during the first quarter of the hot weather. They act as a cooling alterative.

The fruit, the berry called plu, is much prized by the poorer classes. Pilu is used both of the tree and the fruit. It is equally correct to speak of the pilu tree and of eating pilu, but it is incorrect to talk of eating wan or jal. The berry usually ripens shortly after the 15th Jeth (1st June). In 1880, there was a magnificent crop of berries that ripened a month earlier than usual, and thoroughly appreciated it was by the poor classes, with wheat selling at 10-12 seers for the rupee, and harvest below the average. They lived for nearly two months among the jal trees with their flocks, and consumed scarcely anything but pila berries and milk. The berry is supposed to be a cooling diet. The shade of the jul is esteemed as being particularly cool and a thoroughly good protection against the sun, and the day is passed therein. The flocks are very fond of the berry also, and it is supposed to increase both the sweetness and the supply of milk. Quantities of the fruit are dried and stored. The karir bush (Capparis aphylla) is found alongside the jal in every portion of the district. The Kachhi and the Bar are its favourite habitats. It affords grazing to sheep and goats, and when hard pressed, cattle eat or chew the twigs. It bears a pinky white flower, bátá; and when in blossom the Bár assumes for a few days quite a gay appearance. The fruit (dehla) is but little used in this district. It is eaten when ripe, but the zamindárs hardly talk about the crop; or if they do, never in the same terms or with the same interest as the ber and pilit berry crop is discussed. The unripe berry is made into pickle, and also is much esteemed as a tonic (masalah) for horses. The karir wood suffers less from white ants than other indigenous timber, but it does not enjoy perfect freedom from their attacks. It is used as rafters for houses, and for the spokes of the wheel on which the well pots are strung. All the more important indigenous trees and shrubs have been enumerated and described above. Among the other trees besides the fruit-bearing ones, are the bohar (Ficus Indica), the pipal (Ficus Religiosa), the bakáin (Melia Azedarach). The bohar thrives in a wonderful way in the tract near the rivers. One celebrated tree, Pir ka bohar, was carried away by the river Chenáb some 11 years ago. It was situated in the village of Haveli Mohangir, and its shade covered over half-anacre, not the many acres mentioned by a correspondent of the Agri-Horticultural Society, noted at page 213, Stewart's Punjab Plants. The pipal is found, like the bohar, throughout the district, but less frequently. The bakain is found here and there alongside a well, but not often. Other less common trees are the barna, the amaltás (Catharticarpus fistula), the phuláhí (Acacia Modesta), the white siris (Acacia elota), and the jaman (Sizygium Jambolanum). In some of the belas, and more especially just above the junction of the Jhelam and Chenáb, a few specimens of the bahn (populus euphratica) are found. In Jhang the local name is ubhan. The mange, mulberry, peach, apple, orange, lime, pomegranate, lemon, grape, plum, guava, &c., are the fruit trees. The mangoes are generally inferior. Most of the better zamindars have each his bagh or mango orchard. Oranges and limes succeed very well, but the other fruits are not good. The date palms of the district will be noticed in Chapter V.

Chapter I, B. Geology, Fauna and Flora. The Jdi or Pilis.

The Karir.

Other trees.

Chapter I, B. Geology, Fauna and Flora.

Shrubs.

Land, lani, khar.

Among plants are found the ak, buin, khip, phog, láná, lání, khár, jawánh or camel-thorn, munjkána, khán, harmal, bhúkil, thistle. The ak can hardly be termed a useful plant. When reduced to great extremity, goats and door eat the leaves. Buin and khip no animal eats. Mr. Monckton says paper was made of khip in the Jhang jail. It certainly is not put to this use now, though experiments may have been made with the plant in former days. All enquiries have been met with one answer, that it is valueless. Phog comes in the same category. It is found chiefly in the Thal or the sandy tracts of the Bar. It is seldom eaten by cattle. Lana, lana and khar are all found in this district. There are two kinds of

láná-gora and mithar. Mr. Steedman writes:-

"Láná is evidently the gora láná of the Montgomery Settlement Report, and lani the mithar land. I cannot quite follow the notes in the Punjab Plants, and I fancy the writer was not perfectly clear as to his facts. Anabasis multiflora is apparently mithar land or the lání of Jhang; but what salsolas are the Guroxylon fetidum, and Swada fruticosa! The latter is probably the land or gora lánd. Caroxylon Griffithi is the khar. There is a considerable disagreement as to what plant or plants sajji is made from. In the Jhang district sajji is made from khar only. I have made repeated enquiries, and have always received the same answers, that saiji is made from khar, but that sometimes, as sugar is sanded, and as a variety of jams are partly made from turnips and decayed figs, so is the bulk of the sajji increased by burning land with the khar. I have been constantly in camp at the time the khar is cut, and I have never seen a single bundle of cut land, and such adulteration is very uncommon. plants are excellent grazing for camels. Khar is the best, and lani the worst. Khar, Mr. Monckton happily phrases it, forms a useful alterative in the diet of camels that graze in the Bar. Land forms the staple food of the camel for at least 8 months in the year. During May, June and July the jal is browsed, and then land grazing commences."

Other shrubs.

The process of manufacturing sajjí is described in the Sháhpur Gazetteer, and in "Punjab Products," pp. 86-88. Jawanh, jawasa camel-thorn, is found most abundantly in the waste and fallow lands subject to inundation from the rivers. It is a popular error to suppose that camels eat it. As a rank weed, it does much harm to cultivation. The thistle, leh, is another weed that springs up in old sailab lands. Harmal and bhukil are two weeds characteristic of the Kachhi well cultivation. Harmal grows chiefly on fallow lands. Bhakil loves a light sandy soil,

springs up with the crop, and chokes it.

The plant saccharum munja is so characteristic of the Chenáb valley, and plays so important a part in agriculture, that it deserves separate and special notice. It is found but infrequently on the Jhelam. The Jhelam soil is too good to be left to grow sar only. Along the Chenáb there is hardly a single village in which it is not to be seen. The area under sur increases as one goes south. There is more sar in Shorkot than in Jhang, in Jhang than in Chiniot. The difference in the country before and after the kini or flower stems are cut is astonishing. In October and November, in the tracts where this plant grows, the view is closed in on

every side by the flower stems, and a bird's-eye view of the lie of a

Sar, munj, káná.

village is impossible. The leaves sar, the flower stems káná and tili, the stem sheaths munj, are all parts of the same plant, buta. The leaves are used for thatching houses, the kana reeds and Flora. being bound round the edges and across to strengthen the thatch. In the cold weather they are often the only pasturage of the cattle. They are also cut, chopped up, and mixed like bhusa with grain, oil cake, or green stuff. In the early spring the grass is fired, and the cattle graze on the green shoots that quickly sprout again. Only the inferior patches of sar are treated thus, as the plant seldom produces munj káná after being burnt. The dry sar leaf is not very fattening, but it serves to keep the cattle in condition, and to have bute plants inside the village boundary is always considered a great advantage. The káná reeds are used for a variety of purposes, for strengthening thatch, for making chairs, couches, and stools, for the frame-work of bhusa stacks, palla, &c. The upper portion of the stem, till, is the portion broken off, the sheath of which is made into munj. The sheath of the lower portion of the stem is never so used. The till is made into sirki and mats, and is also used for the manufacture of winnowing trays, baskets, Munj is the most valuable of all the products of this plant. The manufacture of the munj into rope may be seen almost any day in any jail in the western Punjab. The lower ends of a bundle of the petioles are first burnt, then they are pounded into fibres, and lastly twisted into a rope. The ropes used in agriculture are made almost entirely of munj. The well ropes, the ties that attach the well pots to the rungs of the well rope, the string portion of charpais, are all made of munj. Several villages have of late commenced to sell their munj kana, and large sums are realised. The zamindars say there are two kinds of sar,—the white and black. The black has a broader and darker coloured leaf, and gives the longest and stoutest káná. The white sar plant is better grazing, and produces better munj. It is, however, probable that they are one and the same plant under different conditions. The white sar is found in lighter soils than the other kind. The kanh (saccharum spontaneum) is only found in the moistest portions of lands adjoining the rivers. It is most valuable pasture for buffaloes. The zamindars go so far as saying that if there were no kánh there would be no buffaloes. It makes the thickest jangal in the district, and is much liked on that account by wild pig. Pens are made from it. It is too valuable to be used for thatch.

As the well-being of the people of this district is so intimately connected with the existence of good pasturage, it will be useful to give a list of the principal grasses, with a few remarks. Chhimbar is the most common grass in the Bar, and appears to thrive in every kind of soil,-sandy, clayey, or saline. With good rain it attains a fair height, and is very dense in growth. It is one of the best. Lamb is a feathery grass of average quality, and is found growing in kallar. Kurya is uncommon. It is a firstclass grass. Horses do particularly well on it. Lunck is a tall upstanding grass, requires a good deal of rain for a good crop, grows in kullar, and is a first-class grass. Garham is not unlike

Chapter I, B.

Sar, munj kind.

Kamb.

Grasses.

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lunak in appearance, but grows higher and stronger. It is not found in kallar, but usually under bushes and where dung has fallen, and is inferior in quality. Khar madhana is a small grass, with seeds shaped like a wood-louse, inferior in quality. Dhaman is the best of all grasses. It is found in the largest quantities in the north of the district. To the south it is rare. It requires a good soil, and will not grow in kallar. The zamindars complain that the dhaman is becoming scarcer and scarcer, and attribute the scarcity to the frequent failure of the rains during late years, but it is doubtful whether this idea is correct. It is a thick, juicy, pale green grass, and grows to a considerable height in favourable years. This grass, the zamindars believe, if in good condition, gives a semi-intoxicating effect to the milk of buffaloes who graze on it. Pilán is another good grass. It is the principal grass of the police rakh not far from Jhang, and makes excellent sweet hay, not so fragrant or tender as English hay, but still not to be despised. It is found mixed with chhimbar and kheo. Kheo is remarkable for the speed with which it springs up after rain, resembling murak in this quality, but otherwise it is a better and larger grass. Murak sprouts out in lowlying moist places after rain. Its leaves are not unlike those of the dabh, but are narrower and grow straight up. Among the prostrate grasses are the alel. dedhak, and kilánj. All three are very hardy, and seem to do best in seasons of drought. They are dug up and given to cattle, Sheep and goats graze them on the ground. There are only two other grasses of the Bar that require notice,—the khawl and panhi. The khawi grows in hollows where water collects, and seems to prefer kallar. There is any quantity of it round Tobha Tek Singh. It has a peculiar fragrant smell, and is of a dark brownish-red colour. Cows graze upon it if hard pressed, but not otherwise. It contains little nutrition. The Bar housewives use wisps of this grass to clear out vessels used for churning or holding milk. The panhi is a very different plant, and is described roughly at p. 253. "Punjab Plants." It, like the khaui, grows in hollows and depressions, but selects only the best soils. It is never seen in kallar. It grows in tussocks like the sar grass, but instead of drooping its leaves, stand out straight and stiff. Its roots are very long and tough. They are used for making ropes, and also for the brushes used by the weavers for arranging the threads of the web. Khaskhas is obtained from the roots of the khawi,

Wild animals and game,

The beasts of prey found in the district are the wolf, the hyena, the wild cat, and lynx. Wolves are numerous both in the Saudal and the Kirána Bár. The hyena is not so often seen. The name of bár-billa is applied both to the long and short-tailed wild cats. The one is the domestic animal run wild, and the other is a true lynx. The first attains a much larger size than the domestic cat, and is remarkably fast. The lynx is a stouter animal. Another animal frequently met with is a kind of badger, a most hideous-looking creature—vernacular name, bijjú. In the interior of the Sándal Bár and between Ghapni and Khuriánwála, there are some droves of wild ponies. They are the offspring of escaped domesticated animals. Major Harcourt had one that was driven with

another horse in a pony carriage. A remarkable but a true story is told of another of these ponies that got loose at Sialkot and found his way back to his old baunts at Ghapni. The parents of these Geology, Fauna wild ponies are said to have escaped in the fights between the Káthiás and Bharwánás. For the five years ending 1882, Rs. 1,195 were paid in rewards for the destruction of 345 wolves, and 570 snukes.

Chapter I. B. and Flora. Wild animals and game.

As a sporting district, Jhang is not particularly good, and yet not bad. Black buck are only found in one portion of the district, between the Kirána hills and the Sháhpur district. There are none in the Sándal Bár included in this district, except perhaps a few near the Gujránwála boundary. Ravine deer are plentiful in the Bar. They especially affect the tract near Tobha Tek Singh and Ghapni, where there is very little cover. They are extremely wary, and it is very difficult to get within shot of them. In the Kirána Bár also, ravine deer are common, but not in such quantities as on the other side of the Chenáb. There are one or two places in the Kachhi near the Thal where they are generally to be found. Páhrá, or hog deer, are found in almost all the large belás on the Chenab. There are a good number in Shorkot, a few in Jhang, and hardly any in Chiniot. Jackals are found in great numbers along the Chenáb. There are not very many in the Bárs. The Kirana hill swarms with them, and the fakirs give them a daily dole, Seeing the jackals fed is a remarkable sight. One of the fakirs stands on the edge of the wall and shouts, " O gidro, gidro, ao ! ao ! ao !" and the jackals seem to spring out of the ground by magic. Where nothing could be seen but a steep bare hill side, is suddenly thronged by 20 or 30 jackals. Bits of chapáti are then thrown down to them, and the way in which they scamper down hill after the pieces is wonderful. Foxes are found all over the district. There are two distinct kinds, one fox is of a very light yellowish-brown colour, so as to be almost indistinguishable from the colour of the ground after drought, with a curved sabreshaped brush of a darker shade on the upper than on the lower side, and ending in a white tag. The second kind is very much darker in hue, and has a perfectly straight brush with a black tag. This species is more compact in form, with a stouter body than the first. Both foxes give capital sport, but the light-coloured one has better staying powers, and is also faster than the other. Numbers are to be found in the tract of Bar adjoining the civil station. Hares are found more or less all over the district. In Chiniot there are but few, except in the interior of the Bar beyond Shahkot, where they are plentiful. In the Vichanh they are seldom met with. There is a very good supply all along the Chenab on the left bank. On the right bank the cultivation is too dense. The hare found in the moist alluvial lands adjoining the rivers is small in size, and does not afford good coursing. It has neither speed nor stamina. The hares of the Utar and Bar give excellent sport, but the Kachhi and Thal hares are supposed to be the hardiest of all. There are a great number of pig in the jand jangal of Bhera and the adjoining portion of Mooltan. From here they spread into the dense jangal that extends from Jalálpur to Alahyár Juta, and

Chapter I, B. Geology, Fauna and Fiora.

Wild animals and game.

the various thick belás on the river. But the country is had for riding. Pig are found now and again in Bela Buggar near the junction of the two rivers, and in one or two places above Jhang, and there are pig in the Sándal Bár near Sángla.

Among game-birds, the bustard, tukdar, the houbdra, gurain, guraini, sandgrouse, coulon, geese, ducks, and quail are annual visitors. The larger bustard is found in the Sandal Bar, but is very rare. The houbarn (pronounced obara here) is plentiful in the cold weather all over the district. They are found in the kallar plain round Tobha Tek Singh in as great numbers as anywhere. The lesser bustard is also seen near the sadr station. Coulon (kun) come in with the cold weather in great numbers. They are found principally in the Hithar. Geese come in later than coulon, and are particularly fond of the banks of the Jhelam and the lower They seem to like particular localities, and may be Chenáb. seen in great numbers in Alikhanana and Rashidpur west of the Chenáb, and in Dabh Kalán and Kachcha Kabíra on the left bank. There are very few duck, and still fewer snipe in the district. There is only one small pond in the whole of the Chiniot tahsil where duck are, as a rule, to be found. In Jhang they are equally scarce. It is only in Shorkot on the budhs of the Ravi that good shooting can be obtained. The best dhuns are in Nalera and Khutpur Sanda. Teal, spotted-bills. mallard, white-eyes, shovellers, gadwalls, are the commonest kinds. Quail are plentiful both in spring and autumn. The autumn shooting is the best, and certainly the most enjoyable. The larger sandgrouse is found in large numbers all over the district in November and December. It is quite a sight to see the flocks flying to and from the Chenáb for their morning's drink. After December a fair number still remain, but not so many as before. The pin-tailed grouse has also been shot in the district, and the common sandgrouse stays all the year round. There are very few black partridges in the district. In the Shorkot tahsil, but nowhere else, are there places where a few shots can always be got. The grey partridge is found infrequently all over the district.

Fish and Fisheries.

Fishing is not practised generally as a profession, upon either the Jhelam or the Chenáb. At Lalera, however, in the extreme south of the district, a few families devote themselves to fishing, and fish are sent from this place for sale at Mooltan.

Reptiles.

The snakes most common in Jhang are the Karet and Cobra. In the Bar many and wondrous snakes are said to exist. The following are among the most venomous:—Karundia, Khapra, Khan, Sangchar, Phanniar or Chhajlavala, the Cobra, Bindo-a and Garra.

### CHAPTER II.

### HISTORY

Considerable interest attaches to the early history of this district, from the identification, now placed beyond a doubt, of the ruins upon a small rocky hill, near the border of the district towards Gujránwála, with the Sákala of the Brahmans, the Ságal of Buddhism, and the Sangala of Alexander's historians. The identity of the three places had long ago been recognized, but the position has been only recently determined. Fortunately for the cause of history, the place was visited, in A.D. 630, by the Chinese pilgrim Hwen Thsang. Both Arrian and Curtius apparently place Sangala to the east of the Ravi, but the itinerary of Hwen Thiang shows that it was to the west of that river, as nearly as possible in the position of the small hill known in modern times as the Sángláwála Tibba.\* The discrepancy is probably to be thus accounted for :- Alexander is stated by both Curtius and Arrian to have been in full march for the Ganges, when he heard "that certain free Iudians and Kathmanst were resolved to give him battle if he attempted to lead his army thither." He no sooner heard this than he immediately directed his march against the Kathæans, that is, he changed the previous direction of his march and proceeded towards Sangala. This was the uniform plan on which he acted during his campaign in Asia, to leave no enemy behind him. When he was in full march for Persia, he turned aside to besiege Tyre; when he was in hot pursuit of Bessus, the murderer of Darius, he turned to the south to subdue Drangiana and Arachosia; and, when he was longing to enter India, he deviated from his direct march to besiege Aornos. With the Kathæans the provocation was the same. Like the Tyrians, the Drangians, and the Bazárians of Aornos, they wished to avoid rather than oppose Alexander; but, if attacked, they were resolved to resist. Alexander was then on the eastern bank of the Hydraotes or Rávi, and, on the day after his departure from the river, he came to the city of Pimprama where he halted to refresh his soldiers, and on the third day reached Sangala. As he was obliged to halt after his first two marches, they must have been forced ones of not less than 25 miles each, and his last may have been a common march of 12 or 15 miles. Sangala, therefore, must have been about 60 or 65 miles from the camp on the bank of the

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\* The following account is abridged from General Cunningham's Archeological Report, vol. II., pp. 192, 200. Further information will be found at pp. 179 to 191 of the same author's Ancient Geography of India.

<sup>19</sup>I of the same author's Ancient Geography of India.

†The Kathwans have been identified with the Jat clan of Kathia, whose territory is in the modern district of Montgomery. The history of the tribe has been discussed in the account of that district—See Gazetteer of the Montgomery district,

Chapter II. History. Hydraotes. Now, this is the exact distance of the Sangala Hill from Lahore, which was most probably the position of Alexander's camp when he heard of the recusancy of the Kathæi. General Cunningham believes, therefore, that Alexander at once gave up his march to the Ganges and recrossed the Rávi to punish the people of Sangala for daring to withhold their submission.

Sanglawala Tibba.

Sángláwála Tibba is a small rocky hill forming two sides of a triangle, with the open side towards the south-east. The north side of the hill rises to a height of 215 feet, but the north-east side is only 160 feet. The interior area of the triangle slopes gradually down to the south-east, till it ends abruptly in a steep bank 32 feet above the ground. This bank was once crowned with a brick wall, which can still be traced at the east end where it joined the rock. The whole area is covered with brick ruins. The bricks are of very large size, 15×9×3 inches. During the last fifteen years these bricks have been removed in great numbers. Nearly 4,000 were carried to the large village of Marh. six miles to the north, and about the same number must have been taken to the top of the hill to form a tower for the survey operations. The base of the hill is from 1,700 to 1,800 feet on each side, or just one mile in circuit. On the east and south sides the approach to the hill is covered by a large swamp, half a mile in length and nearly a quarter of a mile in breadth, which dries up annually in the summer, but during the seasonal rains has a general depth of about 3 feet. In the time of Alexander this must have been a fine sheet of water, which has been gradually lessened in depth by the annual washings of silt from the hill above. On the north-eastern side of the hill there are the remains of two large buildings, from which old bricks were obtained by General Cunningham, of the enormous size of 17 × 11 × 3 inches. Close by there is an old well, which was lately cleared out by some of the wandering tribes. On the north-western side, 1,000 feet distant, there is a low ridge of rock called Munda-kapura, from 25 to 30 feet in height and about 500 feet in length, which has once been covered with brick buildings. At 13 mile to the south there is another ridge of three small hills called Arna or little Sangala. All these hills are formed of the same dark grey rock as that of Chiniot and the Kirana hills to the west of the Chenáb, which contains much iron, but is not worked on account of the want of fuel. The production of iron is noticed by Hwen Thsang.

The Bráhminical accounts of Sákala have been collected from the Mahábhárata by Professor Lassen.\* According to that poem, Sákala, the capital of the Mádras, who are also called Jártikas, and Báhikas, was situated on the Apagá rivulet to the west of the Irávati or Rávi river. It was approached from the east side by pleasant paths through the pílú forest. The country is still well known as Mádrades or the district of the Mádras, which is said by some to extend from the Biás to the Jhelam, but by others only to the Chenáb. The Apagá rivulet, General Cunningham

Pentapotamia Indica, pp. 73 and 74.

recognizes in the Ayak Nadi, a small stream which has its rise in the Jammu hills to the north-east of Siálkot. Near Asarúr (in Gujránwála) the bed of this stream divides into two branches, which, after passing to the east and west of Asarur, rejoin at 21 miles to the south of Sángláwála Tibba. Near Asarúr and Sangala, the Ayak is now quite dry at all seasons, but there must have been water in it at Dhakawala only 24 miles above Asarur even so late as the reign of Shah Jahan, when his son Dara Shikoh drew a canal from that place to his hunting seat at Shekhupura, which is also called the Ayak or Jhilri Canal.

The Buddhist notices of Sakala refer chiefly to its history in connection with Buddhism. A legend is told of seven kings who went towards Ságal to carry off Prabhávati, the wife of King Kusa; but the king, mounting an elephant, met them outside the city and cried out with so loud a voice, "I am Kusa," that the exclamation was heard over the whole world, and the seven kings fled away in terror.\* But there is no other mention of Sakala until A.D. 633, when it was visited by Hwen Thsang, who describes the neighbouring town of Tse-kin as the capital of a large kingdom, which extended from the Indus to the Bias, and from the foot of the hills to the confluence of the five rivers.+

The classical notices of Sangala are confined to the two historical accounts of Arrian and Curtius and a passing mention by Diodorus. Curtius simply calls it "a great city defended not only by a wall but by a swamp (palus)." But the swamp was a deep one, as some of the inhabitants afterwards escaped by swimming across it (paludem transnavere). Arrian calls it a lake, but adds that it was not deep, that it was near the city wall, and that one of the gates opened upon it. He describes the city itself as strong both by art and nature, being defended by brick walls and covered by the lake. Outside the city there was a hill which the Kathæans had surrounded with a triple line of carts for the protection of their camp.§ This little hill may probably be identified with a low ridge to the north-west called Mundakapura, which would certainly appear to have been outside the city walls. The camp on the hill must have been formed chiefly by the fugitives from other places, for whom there was no room in the already crowded city. The Greeks attacking this outpost carried the first and second line of carts, and drove the defenders back within the city walls. Then using the carts to form a barrier round the margin of the lake, they commenced the siege of the city itself. The Kathæans made an attempt to escape by night across the lake, but were checked by the barrier of carts, and driven back into the city. The walls were then breached by undermining, and the place was taken by assault. The loss of the Kathæans is stated

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Hardy's Manual of Buddhism, p. 263, note.

<sup>†</sup> See Gazetteer of the Gujránwála district.

‡ Vita Alexandri, IX., I. "ad magnam deinde urbem pervenit, non muro solum sed etiam palude munitam."

§ Anabasis, V. 22.

Chapter II. History. Sánglawála Tibba. by Arrian to have been 17,000 slain and 70,000 prisoners. Curtius with more probability gives it as 8,000 slain.

Hwen Thsang, when he visited Sakala in A.D. 630, found the walls completely ruined, but their foundations still remained, showing a circuit of about 31 miles. In the midst of the ruins was a small portion of the old city, still inhabited, about one mile in circuit. There was a Buddhist Monastery of 100 monks, and two Buddhist topes, or stupas, one of which was the work of the famous king Asoka.

Shorkot.

Another town of considerable historical interest in this district is that of Shorkot. It is identified with great probability by General Cunningham with one of the towns of the Malli,\* attacked and taken by Alexander, and with a city visited in the 7th century by the same Hwen Thsang to whom history owes the identification of Sángala. The narrative of the campaign against the Malli has been given in the account of Mooltan.† For an account of the city, see Chapter VI, heading "Shorkot." At the time of Hwen Thsang, Shorkot was the capital town of the central district of the Punjab, bounded on the north by the Province of Taki, on the south by Mooltan, and on the west and east by the Indus and the Sutlej. The circuit, as stated by Hwen Thsang, was 833 miles, but General Cunningham shows that it cannot have exceeded about 530 miles. |

Location of tribes.

For a clear account of what little is known of the modern history of this district, it is first necessary to describe the localities of the various tribes who have from time to time played their small parts. The Sials occupy the whole of the country on the left bank of the Chenab, from the southern boundary of tahsil Chiniot to the Rávi. On the right bank of the upper Chenáb a comparatively small tract only is held by them, lying south of a line drawn from the boundary of Kot Khán to the southern boundary of Shah Jiwana. On the Jhelam's right bank, below a point opposite to the northern boundary of Kot Khán, the Siál villages are few; but from its point of junction with the Chenab down to the Muzaffargarh district, there is along the river an almost unbroken chain of Siál villages. Away from the river most of the villages are the property of Beloches. In what is now the Chimiot tahsil on the left bank of the Chenáb, the Chaddhars inhabit the tract between the Sial country and the villages of the Sayads of Rajoa. Beyond them come a motley mixture of Sayads, Harals, Khokhars, and miscellaneous Jats. The tribal limits west of the Chenab in the Chiniot tahsíl are remarkably clearly demarcated. The Bhattís, Lálís, and Nissowanas hold the whole of the northern portion in the above order, from a few miles beyond the Jhang tahsil boundary to that of the Shahpur district. Below these tribes along the river bank

<sup>\*</sup> See Gazetteer of the Mooltan district.

<sup>†</sup> See Gazetteer of the Moultan district.

† See Gazetteer of the Moultan district.

† The name is spelt by Hwen Thsang "Po-lo-fa-to." General Cunningham would read "So-lo-fa-to," which when transliterated would become Sororasi, and would be a synonym for Shorkot. Ancient Geography of India p. 204.

§ See Gazetteer of the Gujranwala district.

See General Cunningham's Ancient Geography of India, pp. 203 to 208, and his Archaeological Survey, vol. V., pp. 97 to 103.

come the Gflotars next to the Shahpur boundary; then Harals, Sayads and unimportant Jats, until the Jhang tahsil boundary is again reached, coinciding with that of the Shah Jiwana ilaka. This tract, the property of the two Sayad families, the descendants Location of tribes. of Pir Fatah Khan and Shah Jiwana, extends to the country held by the Siáls in the Vichanh in the south-west, and northwards to the Khokhar villages above. North of the Sial country, bounded by Kot Khau, come the Akeras, a Jat tribe of no historical interest but of considerable present influence. Beyond them, Khokhars, Jats, and Beloches along the river, and Khokhars in the upland villages, are the proprietors as far as the Shahpur boundary. West of the Jhelam above the Sial country, almost all the villages belong to Beloches.

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The history of Jhang is the history of the Sial, and until the Preliminary sketch reign of Walidad Khan, in the first half of the 18th century, the of the modern hisannals of the district and its tribes are enveloped in Cimmerian darkness. Apparently no facts are forthcoming, for the simple reason that there are none. Passing by the expedition of Alexander and the march of Hephæstus down the left bank of the Jhelam and lower Chenab, through the country now included in this district, the first tangible facts are gained from Babar's memoirs. In the year 1504-5 A.D., when Babar passed through the Khaibar pass and advanced on Peshawar, he wrote :- "The Government of Bhera, "Khusháb and Chenáb was held by Sayad Alí Khán. He read the "Khutba in the name of Iskandar Bahlol, and was subject to him. "Being alarmed at my inroad, he abandoned the town of Bhera, "crossed the river Behat (Vehat is still the local name for the Jhelam) "and made Shirkot (Shorkot?), a place in the district of Bhera, his "capital. After a year or two, the Afghans having conceived suspi-"cions against Sayad Alí on my account, he became alarmed at their "hostility, and surrendered his country to Daulat Khan, who was "Governor of Lahore. Daulat Khan gave Bhera to his eldest son "Alf Khán, by whom it was now (1519) held." Alf Khán and his father were governors under the Lodi dynasty of Dehli, then represented by Ibrahim Lodi, the last of his line. Shortly before the above passage, Bábar speaks of the country of Bhera, Khusháb, Chenab and Chiniot as having been long in the possession of the Turks, and ruled over by the family of Timur Beg and his adherents and dependants ever since his invasion of India in 1398. The matter of most interest to the historian of Jhang is the locality and limits of these countries. Where was the Chenab country? Is the Shirkot where Sayad Alí Khán fled, the Shorkot of to-day? If so, how could Babar write of it as being in the district of Bhera, for the Khushab country must have intervened? Mr. Steedman is inclined to identify Shirkot with Shorkot, and to place the Chenab country south of Chiniot and Khushab. Whether this is right or wrong, Jhang and the Siáls were not of sufficient importance to be mentioned at the commencement of the 16th century A.D. They remained equally unknown and unnoticed during the two centuries that elapsed between Bábar's first invasion and the accession to the throne of Muhammad Shah in 1720 A.D. It was not until the stirring times during which the dynasty of the Mughals tottered

tory of the district.

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Preliminary sketch of the modern history of the district.

and fell, the half century that witnessed the rise of the Sikhs and the Mahrattas, and the devastating inroads of Ahmad Shah, that the Siáls can be said to have been even temporarily independent. Previous to Walidad's accession, the Sials probably were a pastoral tribe, but little given to husbandry, dwelling on the banks of the rivers and grazing their cattle during the end of the cold and the first months of the hot weather in the lowlands of the Chenab, and during the rainy season in the uplands of the Bar. The greater portion of the tract now occupied by them was probably acquired during the stormy century that preceded the conquest of Hindustanby the Mughals. During this period the country was dominated from Bhera and sometimes from Mooltan. The collection of revenue from a nomad population inhabiting the fastnesses of the Bar and the deserts of the Thal could never have been easy, and was probably seldom attempted. Left alone, the Siáls applied themselves successfully to dispossessing those that dwelled in the land,—the Nauls, Bhangus, Mangans, Marals, and other old tribes, amusing themselves at the same time with a good deal of internal strife and quarrelling, and now and then with stiffer fighting with the Kharals and Beloches. Then for 200 years there was peace in the land, and the Sials remained quiet subjects of the Lahore Suba, the seats of local government being Chiniot and Shorkot, Walidad Khan died in 1747, one year before Ahmad Shah Abdali made his first inroad and was defeated before Dehli. It is not known when he succeeded to the chieftainship, but it was probably early in the century, for a considerable time must have been taken up in the reduction of minor chiefs and the introduction of all the improvements with which Walidad is credited. It was during Walidad's time that the power of the Siáls reached its zenith. The country subject to Walidad extended from Mankera in the Thal eastwards to Kamália on the Rávi. from the confluence of the Ravi and the Chenab to the ilaka of Pindi Bhattian beyond Chiniot. He was succeeded by his nephew Inavatulla, who was little if at all inferior to his uncle in administrative and military ability. He was engaged in constant warfare with the Bhangi Sikhs on the north, and the chiefs of Mooltan to the south. His near relations, the Sial chiefs of Rashidpur, gave him constant trouble and annoyance. Once indeed a party of forty troopers raided Jhang and carried off the Khan prisoner. He was a captive for six months. The history of the three succeeding chieftains is that of the growth of the power of the Bhangis and of their formidable rival the Sukarchakia misl. destined to be soon the subjugator of both Bhangis and Sials. Chiniot was taken in 1803, Jhang in 1806. Ahmad Khán, the last of the Sial Khans, regained his country shortly after in 1808. but in 1810 he was again captured by the Maharaja, who took him to Lahore and threw him into prison. Thus ended whatever independence the Siál Kháns of Jhang had ever enjoyed.

Early history of the dád Khán's reign.

The previous paragraph contains a brief sketch of the history Sial clan up to Wali- of the Sials and their rule over the southern portion of the country now comprised in the Jhang district. It is now necessary to fill in the details so far as they have been ascertained. The sources

from which the information now given has been compiled, are the history of the Sial by Maulyi Nur Muhammad Chela, Griffin's "Punjab Chiefs," and the local stories and traditions. The Sials are descended from Rái Shankar, a Panwar Rájpút, a resident of Early history of the Dháránagar between Allahábád and Fatehpur. A branch of the Panwars had previously emigrated from their native country to Jaunpur, and it was there that Rai Shankar was born. One story has it that Rái Shankar had three sons-Séu, Téu, and Ghéufrom whom have descended the Sials of Jhang, the Tiwanas of Shahpur, and the Ghebas of Pindi Gheb. Another tradition states that Sial was the only son of Rai Shankar, and that the ancestors of Tiwanas and Ghebas were only collateral relations of Shankar and Siál. On the death of Rái Shankar we are told that great dissensions arose among the members of the family, and his son Siál emigrated during the reign of Alá-ud-dín Ghori to the Punjab. It was about this time that many Raipht families emigrated from the provinces of Hindústán to the Punjab, including the ancestors of the Kharals, Tiwánás, Ghebás, Chaddhars and Panwár Siáls, It was the fashion in those days to be converted to the Muhammadan religion by the eloquent exhortations of the sainted Bawa Farid of Pakpattan, and accordingly we find that Sial in his wanderings came to Pákpattan, and there renounced the religion of his ancestors. The saint blessed him, and prophesied that his son's seed should reign over the tract between the Jhelam and Chenáb rivers. This prediction was not very accurate. Báwa Farid died about 1264-65. Siál and his followers appear to have wandered to and fro in the Rachna and Chaj Doabs for some time before they settled down with some degree of permanency on the right bank of the Jhelam. It was during this unsettled period that Siál married one of the women of the country, Sohág, daughter of Bhai Khan Mekan of Sahiwal in the Shahpur district, and is also said to have built a fort at Siálkot while a temporary resident there. At their first settlement in this district, the Sials occupied the tract of country lying between Mankera in the Thal and the river Jhelam, east and west, and from Khushab on the north to what is now called the Garh Maharaja ilaka on the south. Mankera is said to have been founded by Manak, and Amowani, now called Haidarábád, by Amo, sons of Diráj. The tomb of Chúchak, a leading man of the Kohli branch, is at Kotli Bákir Shah, and Maggun, the ancestor of the Maghianas, emigrated to Maghiana from Lohabhir. About the year 1462, Mal Khan, ninth in descent from Siál, funded Jhang Siál on the banks of the Chenab. The old town of Jhang was situate west of the tomb of Núr Sháh, south-west of the modern town, and was subsequently carried away by the river. There are still some traces of the old town to be seen. Mr. Monckton wrote of Mal Khán :- " He was "the first of a race of rulers who, under the title of Khan, exercised "an extensive sway over the neighbouring countries, till the rising "fortune of the Sikhs, guided by the genius of Ranjit Singh, "successively absorbed all the minor principalities within the "territory of the five rivers." But Mr. Monckton much over-estimated the power and influence of the Siáls before the reign of Walidad

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Khan. At this period the throne of Dehli was occupied by the Lodhis, and this part of the Punjab was included in the governments of Chiniot and Shorkot and Khushab. There were, however, no resident governors, and the Sials paid in their revenue to the Nauls, who were the dominant tribe in the country round Jhang. Mal Khan, after the foundation of Jhang, visited Lahore, and obtained the farm of the Jhang revenues from the Governor. Another account is that he met the Governor at Chiniot. Mal Khán belonged to the Chuchkáná branch of the Siáls. He was succeeded by his eldest son, Daulat Khán, who was killed near the Thal while repelling a Beloch raid. His tomb is still to be seen at Wású Astháná. The chieftainship descended to his son Gházi Khan, whose first act was to revenge his father's death and inflict severe punishment on the Beloches. He built a fort on the banks of the Jhelam, a short distance above its junction with the Chenáb. where the village of Chauntra now stands. It is related that Gházi Khán was the first Siál chief who established a standing army. The next prince was Jalal Khan, son of Ghazi Khan. He appears to have been deficient in ability as a governor, and unable to restrain his unruly tribesmen. The minor chiefs of Khiwa and Pahárpur now first appear on the scene. Rashidpur was founded by Jalal Khan's son Rashid, and Paharpur by Pahar Khan, a nephew of Jalal Khan, who had quarrelled with his uncle, and set up an independent chiefship. Pahár Khán treacherously slew his uncle while on a visit to him, made with the object of effecting a reconciliation. He was succeeded by his son Rashid Khan, who abdicated in favour of his son Firoz Khán. Firoz Khán's first enterprise was to exact retribution for his grandfather's murder. His brother Kabir Khan collected the youth of Jhang and took by storm the fort of Pahárpur. All the descendants of Pahár Khán who were taken were put to the sword. The remnant that escaped founded the fort of Gilmála, about 15 miles to the south-west of After this exploit Kabír Khán and Firoz Khán ruled jointly, and when Firoz Khán died his brother ascended the throne. The next chief was Jahan Khan. The eight sons of Jahan Khan were superseded, and their cousin Gházi Khán obtained the chieftainship. Gházi Khán lost his sight, and abdicated in favour of his son Sultan Muhammad, between whom and the Kharals there was constant hostility. The story told at page 510 of the "Punjab Chiefs" does not agree with the account given by Maulvi Nur Muhammad. Prince Maujuddin stopped at Kamália on his way to Mooltan and Dera Gházi Khán. He was at the time leading an expedition to punish some rebellious Beloches. Saádatvár Khan, the Kharal chief, complained to the prince of the conduct of the Sials and their leader Sultan Mahmud. The prince ordered Saltan Mahmud to be thrown into confinement, but deferred enquiry into the charges until his return from the frontier. The nobleman who was deputed to arrest Sultán Mahmúd and take him to Mooltan was so pleased with his manners and address, that he interceded with Maujuddin for him. The prince then sent for Sultan Mahmud, but Saudatyar Khan, fearing that the true cause of the enmity between himself and the Sial chief would leak out and the

groundless nature of his accusation be exposed, intercepted the messenger and beguiled him into adding to his message the advice that it was Sultan Mahmud's best policy to make friends with the Kharal and give him his sister in marriage. The Sial Early history of the was so exasperated at his proposal that he then and there killed the messenger with his fists, and was himself slain in the melée that ensued. All this took place at Mooltan, for Sultan Mahmud's tomb is there. Sultán Mahmúd left no children, and was succeeded by his brother Lal Khan, whose mother was a prostitute. He was taunted by Saadatyar Khan for this taint in his ancestry. and in revenge he plundered up to the walls of Kamália, and ravaged the Kharal country. Lál Khán died childless, and was succeeded by his brother Mahram Khán, of whom nothing is known. He met his death at the hands of a herdsman, who shot him in mistake for a robber, and his son Walidad reigned in his stead.

Walidad Khan was by far the most able chieftain that ever ruled the Siáls. His talent for civil administration was only equalled by his skill and success as a military leader. Under his beneficent rule a rude people first learnt what justice was ; severe punishments and a rigorous enforcement of the track law put a stop to crime; a moderate assessment of land revenue resulted in an extension of cultivation and the construction of a number of wells that now seems fabulous; while the kingdom of the Siáls advanced to limits that it never knew before, and has never reached since. When Walidad Khan succeeded his father, the boundaries of his kingdom were most narrow. Within a few miles of Jhang fort to the north lay lands that acknowledged the sway of the Máhní chief of Khíwa. Southwards another and more powerful chief, a Nithráná Siál, with his head-quarters at Mírak Siál, 26 miles from Jhang, ruled over the country from Shorkot to within 12 or 15 miles of Jhang. In the Vichanh was the independent chief of Massan, a Sahibana Sial, whose territory marched with that of the Bhairo Khokhars to the north, and with the villages of the Shah Jiwana ilaka, subject to the Sayad Latif Sháh, a descendant of Pír Fatah Khán, on the north-east. Beyond the Sayad came the lands of the Rihan chief of Kalowal. Across the Chenáb Rashídpur was the seat of Siál chiefs, sprung from the same stock as Walidad, and whom he never in the height of his power regarded as other than allies. Eastward the sovereignty of the Bar was disputed by the Kharals, represented by the Kamalia chief. The relation in which these chiefs stood to the ruling power in the first quarter of the 18th century is not clear; but this much appears, that they were independent of the Jhang Sials, and probably paid (or often did not pay) their revenue direct to the governors of Chiniot and Mooltan. As was the custom, as his ancestor Mal Khán had done with the Nauls, so did Walidad Khán with these neighbouring chiefs of Khíwa, Massan, Shorkot, Mírak and Kamália. He first obtained from the Lahore governor the right to collect their revenue or tribute, and his next step was to make them subject to himself. His first object was secured by stratagem. The Dehli empire was fast hastening to its dissolution

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and when the time came for payment of revenue, Walidad pretended to be ill, and delayed payment. At the same time he contrived to have hints conveyed to the neighbouring chiefs that he was a defaulter only because the government of the day was too weak to enforce the collection of its dues. The rival chiefs fell into the snare and refused payment. No sooner had they thus publicly thrown off the yoke than Walidad Khan repaired to Chiniot and paid in his revenue. The Dehli governor complained of the conduct of the other chiefs, and Walidad at once offered to pay up their revenue also, if their countries were made over to him. His offer was accepted. A small force of cavalry was deputed to assist him, and Walidad then sent for the chiefs, who obeyed the summons. They were thrown into prison for a short time, but were subsequently released and granted service jayirs. The subjection of these chiefs was followed by the reduction of the Sayad ruler of Rajoa, Latif Shah, and of the Khokhars of Mari and Bhairo. An invasion of the Beloches of Sahiwal in aid of the Khokhars was also repelled with loss by his general, Sharif Khan Aliana; Izzat Bakhsh Rián was his deputy in Kálowál. It is not known how Walidad acquired the Kalowa! ilaka, but most probably he obtained it as a portion of the Chiniot province. The governorship of the Chiniot province was next bestowed upon the loyal (for he never professed himself other than the slave of the Dehli empire) and fortunate Siál chief. His supremacy was now acknowledged over the whole of the country included in the district of Jhang as it at present exists, together with large slices of the neighbouring districts of Montgomery and Dera Ismáil Khán. He died in 1747 at Sodra, near Wazírábád, while in attendance on Máhárája Kaurá Mal, the governor of Mooltan.

Inayatulla Khan.

His successor Inávatulla Khán was his nephew, and had also married his daughter. This chief was little inferior as an administrator to his uncle, and in military genius was probably more than his equal. He is said to have fought and won 22 battles. He reigned 40 years, from 1747 to 1787. Able as he was, he could not stem the resistless wave of Sikh success, and at his death the Sial ascendancy was clearly on the wane. Amid encroachments of the Bhangi Sardars from the north, inroads from Mooitan on the south, successive raids by the plundering free-booters that accompanied Ahmad Shah's invasions, attacks by the Beloches and Tiwanas, and disunion and dissensions among the Siáls themselves, it was no easy matter to steer the ship of Sial rule safely into haven. We have more facts about Inayatulla Khan's reign than any other. At the commencement he associated his brother-in-law Shahadat Khan with him in the chieftainship. They sat on one throne, sheathed their swords in one scabbard, ate and drank together, and in a word rivalled in their friendship the most renowned examples afforded by antiquity. This fraternal affection did not last long. A quarrel took place. Shahadat Khan left Jhang and withdrew to Kadirpur. He got an army together there, and marched upon Jhang. After crossing the Chenab he was met at Sultanpur by Inayatulla Khan, and was there defeated and slain. Meanwhile an Afghan, named Din Muhammad, had seized upon Mari beyond

Kot Isa Shah, but Inayatulla, after disposing of Shah, and Khan, marched against the invader and defeated and drov gover out of the Jhang territory. The Sials of Rashidpur had ice an become powerful, and were noted for their turbulence and bravery. To punish them for some disobedience, Inayatulla obtained the aid of some Burrani horsemen from the governor of the day, and harried their lands. In return for this, forty horsemen of the Sials of Rashidpur gave the chief a taste of their quality by taking him prisoner at Jhang, and carrying him off under the eyes of his army to Rashidpur. They kept him in confinement in the castle of Sat in the Thal for some six months. Apparently neither during this nor the previous reign had the rule of the Siáls extended very far down the right bank of the Chenáb, for among Ináyatulla's achievements is reckoned his defeat of the two Sikhs who were the sub-governors of Islamabad and the annexation of their charge. This incensed the Governor of Mooltan, and an ambuscade was laid for Ináyatulla while on a visit to Shorkot. He, however, got word of the plan from the Sargánás of Kund Sargána, and collecting an army of Káthiás and Kamlána, Rajbána, and Sargána Siáls, defeated the Mooltan troops with great slaughter at Kotla Afgháná close by Shorkot. At one time Inávatulla found it politic to pay Malik Sher Tiwana black mail as the cheapest way of protecting the outlying pargana of Mari. Subsequently, thinking himself strong enough, he discontinued the payment. Sher Khán then assembled his clan, and driving the Siáls out of Kháí, a few miles north of the present district boundary on the right bank of the Jhelam, laid siege to Kot Langar. now Thatti Langar, just inside the present boundary. Here Ináyatulla met and defeated the Tiwáná force. Both sides are said to have had some Sikh chiefs as auxiliaries. At another period the Siál chief defeated and subdued the Beloches of Haidarabad in the Thal. He also took the fort of Uch founded by a Belot Sayad who had settled in the Kachhi during his reign. It was in this reign that the Bhangi Sardárs first made their power felt. About 1760, Hari Singh ravaged Jhang and imposed a About 1778, Ináyatulla ceased to pay tribute and recaptured Chiniot, but it had apparently again fallen into the hands of the Bhangis before his death. It is related of Inavatulla that he met Jahán Khán, the grandfather of Dost Muhammad Khán of Kábul, while on his way back from Hindústán, who asked for one of his sisters in marriage. There were three or four unmarried, but the proud Siál sent word to Bhawani Dás, his Díván, to have them all married at once, and declined the proferred alliance on the ground that he had no sisters unmarried.

Ináyatulla died in 1787, and was succeeded by his imbecile son Sultán Mahmúd, whose weakness only served to set off the great force of character possessed by his wife Mussammát Niámat Khátún, the daughter of Shahádat Khán. Mánh Singh, father of Ranjít Singh, nourished designs on Jhang, but the army collected by Mussammát Niámat Khátún was so formidable that he postponed his invasion. Shortly after, Sáhib Khán, half brother of Sultán Mahmúd, who was constantly endeavouring to dethrone

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Sultán in hmúd, sought assistance from Mánh Singh, and was promised to have the promise was not carried out, as Timúr Sháh was advertig on Mooltan. Finally, Sahib Khán obtained an entry to Jhang by treachery, and with 85 men only at his back, captured the fort and put Niamat Khátún and Bhawání Dás, the Diván, to death. Sultán Mahmúd was absent from Jhang and marched against the usurper, but he was inveigled to a meeting, seized and imprisoned at the fort of Chauntra, and shortly afterwards Sáhib Khán put him to death. Sáhib Khán was himself assassinated at a marriage feast a few months after. Sáhib Khán left a son by a woman of the prostitute class, who died three years after at Uch; his successor was Kabír Khán of the line of Jahán Khán, who married Sáhib Khán's widow, the daughter of Umr Khán Siál. After a peaceful and uneventful rule,—the calm preceding the storm,—he was dethroned by, or abdicated in favour of his son Ahmad Khán, the last of the Sial Kháns. This was in 1801. Kabír Khán fled to Uch, where he was besieged unsuccessfully for two months by Ahmad Khán. When the siege was raised, Kabír Khán fled to Rangpur, where he died. Seven months after the accession of Ahmad Khan, Ranjit Singh laid siege to and took Chiniot, then held by Jassa Singh, the son of Karam Singh Dulu, a chief of the Bhangi confederacy. It is difficult to glean any clear account of the varying fortunes of Chiniot between the death of Walidad Khán and its capture by Ranjít Singh, but the town seems to have been held almost continuously by the Bhangi Sardárs. After making himself master of Chiniot, Ranjit Singh turned towards Jhang, but Ahmad Khan bought him off by agreeing to pay Rs. 70,000 a year and a mare. The first instalment was sent through Fatah Singh, Káliánwála. Ahmad Khán paid the tribute for two or three years, and then in S. 1862, A.D. 1805-6, the Maharaja again invaded Jhang with a large army. The Sial chief again endeavoured to stop the Sikh advance by a payment of nazarana, but his offers were rejected. Jhang was invested, and after some hard fighting the town and fort were captured. Ahmad Khan fled to Mooltan, where he found an asylum with Muzaffar Khán, who granted him an allowance of Rs. 25 a day. From Jhang the Máhárája crossed the Chenáb and exacted Rs. 3,000 as nazarand from the Savad ruler of Uch. Thence the Sikh leader turned south and marched on Mooltan, and his progress was only stopped within a short distance of the city by a payment of Rs. 70,000. Jhang, with the exception of the Vichanh, was made over on farm to the Sikh Chief Fatah Singh, Kalianwala, the Vichanh tract being entrusted to Dyal Singh and Fatah Singh Lamah. Fatah Singh appointed Dal Singh as his sub-governor. The following year Ahmad Khán, with the assistance of a Pathán force given him by the Nawab of Mooltan, made an effort to recover his kingdom. He captured Shorkot, and having established his authority in the southern portion of Jhang, he advanced on the capital, only to retire on the arrival of Fatah Singh with a force. He next crossed the Chenáb and took refuge in the Uch fort, where he was pursued by Fatah Singh. There they came to terms, and Fatah Singh restored what portion of Jhang he held to Ahmad Khan on

his agreeing to pay an annual rent of Rs. 70,000. Ahmad Khan was reinstated, and shortly after drove out the Sikh governors of the Vichanh. The next ten years were passed in peace and quietness. Ranjit Singh was too fully engaged on other expeditions to give any attention to the affairs of Jhang. In 1810 the Maharaja had made an unsuccessful attack on Mooltan, and on his way back to Lahore he visited his chagrin on Ahmad Khan who had accompanied him as his feudatory, and whom he suspected of favouring the Mooltan Nawab. He threw him into confinement, and carried him away to Lahore. The government of Jhang was entrusted to Lála Suján Rái. Ahmad Khán's eldest son, Ináyat Khán, fled to Haidarábád in the Thal, where he was followed by Náng Sultán, the Fakir ruler of Uch. Suján Rái then took possession of Uch. Eventually Ahmad Khan was released from prison and granted a jayar of Rs. 1,200 at Mirowal, in the Amritsar district, on Inayat Khán his son being made over to the Máhárája as a hostage. Ahmad Khán died in 1820 on his way back from Mooltan at Ali Khanáná, and was buried at Jhang. His son Ináyat Khán succeeded to his father's allowance and jagirs, and was killed in 1838, near Rasúlpur, fighting on the side of Díván Sáwan Mal against Rája Guláb Singh. Ismáil Khán, the younger brother of Inávat Khan, and the present head of the family, went to Lahore on the death of his brother in the hope of obtaining a grant of succession to his brother's jagir. But owing to the machinations of Guláb Singh, the jagir was confiscated, and all that he got was an allowance of Rs. 100 a month. He remained at Lahore for five years, and then his pension was discontinued. He then returned to Jhang and lived there in great poverty on an allowance of Rs. 2 or Rs. 3 a day granted him by Díván Sáwan Mal until the Mooltan rebellion and the annexation of the Punjab.

Of his services during the campaign of 1848-49, and again in 1857, Sir Lepel Griffin writes ("Punjab Chiefs," pages 506, 507):—

"In October 1848, Major H. Edwardes wrote to Ismáil Khán directing him to raise troops in behalf of Government, and to collect the revenue of the district. The poor chief, hoping the time was come when loyalty might retrieve his fortunes, raised a force, and descending the river attacked and defeated the rebel Chief Ata Muhammad at Nekokárá. Afterwards, when Sardár Sher Singh Atáriwála had passed through Jhang and had left Deoraj in command of 1,000 men there, Ismáil Khán attacked this detachment several times with varying results. His Jamadár, Pír Kamál of Kot Isa Sháh, captured at the fort of Taraka another rebel chief called Kahan Das. Thus Ismail Khan, the representative of a long and illustrious line of chiefs, stood out bravely on the side of Government. His influence, which was great in the district, was all used against the rebels, and his services were specially valuable at a time when it was inexpedient to detach a force against the petty rebel leaders. After annexation Ismail Khan was made Risaldar of the Jhang Mounted Police, but his services were through inadvertence overlooked, and it was not till 1856 that he received a pension of Rs. 600 for life. Three wells were also released to him and his male heirs in perpetuity. In

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1857 the services of the chief were conspicuous. He aided in raising a force of cavalry, and served in person against the insurgents. For his loyalty he received a khilat of Rs. 500 and the title of Khán Bahádur, and his yearly grant of Rs. 600 was raised to Rs. 1,000, with the addition of a jàgir of Rs. 350 for life. In 1860 his pension was at his own desire exchanged for a life jàgir. He has recovered many of his old zamíndárí rights in different villages, and although his estate is only held on a life tenure, yet the Government on his death will take care that this illustrious family does not sink into poverty. Kabír Khán, the son of Ismail Khán, is an Honorary Police Officer of the Jhang district; Jahán Khán, brother of Ahmad Khán and uncle of Ismail Khán, holds a jāgir at Chund Bharwána and Budhi Thatti worth Rs. 887, an old grant of Ranjit Singh to his father, confirmed in perpetuity by the British Government."

Jahán Khán died on 9th November 1870.

The farmers of the Jhang district revenue. The names of the persons who farmed the revenues of the Jhang province, including Pindi Bhattián, Farúka, and Sayadwála, and excluding Kálowál and Garh Máhárája and Ahmadpur, from Sambat 1873 to 1903, are given below:—

YE	AE.		Contract
Sambat.	A, D.	Name of Farmer.	money.
	F		Ra.
1873	1816	Suján Rái	3,75,000
1874	1817	Sukh Diál	4,00,000
1875-76	1818-19	Jowala Singh	4,00,000
1877	1820	Sukh Dial	4,10,000
1878	1821	Sáhib Ditta and Shám Singh	4,00,000
1879	1822	Sham Singh, Jowala Das, Lala Ram	4,20,000
1890	1823	Jassa Singh, Danlat Ram, Sham Singh	3,25,000
1881	1824	Bákar and Jalla Bharwána	4,40,000
1882	1825	Sham Singh, Abdul Rahman	4,35,000
1883	1826	Afzal Khan, Jowahir Singh	4,40,000
1884	1827	Jiwand Singh	3,40,000
1885	1828	Maharaj Attar Singh, Bhola Nath	4,45,000
1886	1829	Dal Singh, Devi Bakhsh	4,55,000
1887	1830	Dal Singh	4,56,000
1988	1831	Ram Kaur of Jhang	4,67,000
1889-1900	1882-44	Divan Sawan Mal	4,35,000
1901-1903	1845-47	Dívan Múl Ráj	4,35,000
1903-4	1847-48	Rallia Rám	5,00,000
1904	1848-49	First Summary Settlement by Mr. Cocks.	

The amount of revenue shown includes the Chabatra tax, and is an approximation on returns furnished by Kanungos. Too much credit should not be attached to the figures. The Jhang province contained the tract that constituted the old district of Jhang. The Kalowal iläka belonged to Bhera, and those of Garh Maharaja and Ahmadpur to the province of Mooltan. Raja Gulab Singh held the farm of Kalowal for many years, and the severity of his exactions was such that his name is still execrated. Garh Maharaja and Ahmadpur were under Sawan Mal. The results of Sawan Mal's rule on the welfare of this district will be discussed with the past fiscal history of the district (Chap. V, Sec. B). For an account of his rise to power, his administration of the Mooltan

province, and his death, pp. 272-285 of the "Punjab Chiefs," should be consulted. There also will be found the history of Múl Ráj's short pro-consulship and his downfall. Some further historical details will be found in the notices of the leading tribes in Chapter III, Section C.

Before the treaty of Bhairowal, the British Government undertook to maintain the authority of the Lahore Darbar, and to administer the affairs of the Punjab during the minority of the young Maharaja Dalip Singh. Officers from the Company's service were selected to carry out a summary settlement of the land revenue. The Jhang district, with the exception of the Garh Maharaja and Ahmadpur ilakas, had been occupied in 1846 by the Darbar during the contest between the Lahore Government and Múl Ráj; and when peace was made it was retained, although it had previously formed a portion of the Mooltan province and been held by Sawan Mal. The two excepted ilakas, however, continue to form a part of the territory held by Múl Ráj. Upon the annexation of the Punjab in 1849 the whole district became British territory. The area comprised within the Jhang district as first constituted is described below.

The following account of the events of 1857 is taken from the

Punjab Mutiny Report :-

"Jhang is a wild rural district, chiefly in the Bar above described, and tenanted by the wild races, of whom mention has just been made. The population is comparatively scanty. The treasury guard was a Company of the 16th Native Infantry Grenadiers. It was a mere hindrance; and at the request of Captain Hawes, Officiating Deputy Commissioner, was withdrawn to its head-quarters at Lahore, where it Two parties of mutineers were destroyed in this was disarmed. district, -one numbering 10 men of the 14th Native Infantry; the second, the party of the 9th Irregular Cavalry. The villagers rendered good service in tracking this last detachment; but when on the 17th September the Bar tribes rose, the villagers of this district maintained but a doubtful neutrality. Communications between Jhang and Lahore were cut off. For some time great anxiety was felt at Labore as to what had occurred there. It was known that many of the minor police stations had been rifled, and that the tribes around were all in rebellion. In a few days, however, Captain Hockin's force, 250, of the 17th Irregular Cavalry, was thrown into the disturbed region; it was supported by a party of the Leiah and Gujranwala New Levies, while Major Chamberlain, with a force from Mooltan, advanced on Jhang from the south. Mr. McMahon, Extra Assistant Commissioner, was sent out to Kot Kamália in the Gugera district with a party of police horse; but it had been pillaged before his arrival, and he was soon after recalled by Captain Hawes. Lieutenant Lane, Assistant Commissioner, had command of the Leiah Levy; while Captain Hawes joined Major Chamberlain's force, and remained with it as Civil Officer till the defeat of the rebels at Kamalia some time after. After Captain Hawes' return to Jhang, Lieutenant Lane was detached to Shorkot, where he did excellent service in apprehending rebels and seizing their cattle."

The old fiscal divisions of the Sikhs were to a certain extent retained within the tahsil boundaries. The old tahsils were three besides the Peshkari of Uch. Chiniot was much the same as

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Annexation.

The Mutiny.

The first tabuil divisions and tachukals.

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The first tabsil divisions and toulskabs, it is now, minus the villages that came over from Shahpur. Tahsil Jhang lay on the left bank of the Chenab, and included the country from the Chiniot boundary down to the Ravi, and also the lowest portion of the Vichauh known as the Massan taalukab. West of the Chenab was the Poshkari of Uch, bounded by the Garh Maharaja ilaka on the south, and extending up to the right bank of the Jhelam to a few miles beyond Machhiwal. The Kadirpur tahsil contained the remaining country on the right bank of the Jhelam, and between the Jhelam from the Massan taalukah to the Shahpur boundary. The sub-divisions into taalukahs were as follows in the old tahsils:—

Chiniot.	Jhang.	Kadirpur.	Uch.
Sipra.	Wara.	Mari.	Chauntre.
Chiniot	Jhang.	Kot Shakir.	Uch.
Kurk.	Gilmala.	Kot Isa Shah.	Nekokara.
Bhowana.	Shorket.	Kadirpar.	
Kálowál.	Massan.	Bharmi Wara.	11.4
Ahmadnagar.		Shah Jiwana.	
Laliau.		Bhattian.	

Subsequent changes of boundary.

At first the Jhang district, compared with the present boundaries, contained the Farúka taalukah in the Chaj Doáb, transferred to Sháhpur in 1854, and a considerable strip of country on the right bank of the Rávi, between the present boundary and that river, transferred to the Mooltan district about the same time; and did not contain the Garh Máhárája and Ahmadpur ilákas transferred from Muzaffargarh in 1861, and the Kálowál iláka transferred from Sháhpur in the same year. The existing division of the district into the three tahsíls of Shorkot, Jhang and Chiniot dates from this period. In 1880 five villages on the Rávi were transferred from Shorkot to the Sarai Siddhu tahsíl of Mooltan in order to give the Deputy Commissioner of the latter district complete control of the Rávi sailáb.

List of District officers. The following is a list of the Deputy Commissioners who have held charge of the district since annexation:—

LIST OF DEPUTY COMMISSIONERS FROM ANNEXATION

From
May, 1849 March, 1850 March, 1852 February, 1853 April, 1853 February, 1857 April, 1858 January, 1859 May, 1859 Mune, 1861 November, 1861 November, 1862 January, 1863 April, 1863 April, 1864 May, 1866 1846 May, 1870 26th August, 1873

From	То	Names.
22nd September, 1875 fird December, 1875 find March, 1876 21st January, 1878 5th March, 1880 14th January, 1882 Oth May, 1882	13th January, 1882 8th May, 1882	. T. W. Tolbort A. Harcourt G. M. Ogilvie.

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List of District officers.

Some conception of the development of the district since it came into our hands may be gathered from Table No. II, which gives some of the leading statistics for five-yearly periods, so far as they are available; while most of the other tables appended to this work give comparative figures for the last few years. In the case of Table No. II, it is probable that the figures are not always strictly comparable, their basis not being the same in all cases from one period to another. But the figures may be accepted as showing in general terms the nature and extent of the advance made.

The following figures show the revenue of the district under certain heads in 1851, 1861, 1871 and 1881:—

IMPERIAL REVENUE, 1851-52, 1861-62, 1871-72, 1881-52.

-	Year.	LAND R	Fluc-	Salt and Customa.	Exclass (apprits).	Opinin and drugs	Assessed Taxes.	Stampe.	Mincella- heous.
-	1851-52 1861-62 1871-72 1881-82	Re. 2,40,635 3,19,405 2,69,650 5,14,665	27,668		Rs. 853 2,021 3,360 3,150		Ba. 12,916	Fbs. 11,871 26,435 29,177 56,031	Ra. 2,443

Development since annexation.

## CHAPTER III.

#### THE PEOPLE.

#### SECTION A.—STATISTICAL.

Chapter III, A. Statistical.

Distribution of population. Table No. V gives separate statistics for each tabsil and for the whole district, of the distribution of population over towns and villages, over area, and among houses and families; while the number of houses in each town is shown in Table No. XLIII. The statistics for the district as a whole give the following figures. Further information will be found in Chapter II of the Census Report of 1881:—

Description of total con-	lation	Persons	211-92	111		90.64
Percentage of total pop	PULLITION	Males	tier	211		91.02
who live in villages		Females		214	100	90-20
Average rural population	on per vi	llage		217	201	474
Average total population				411	2.00	519
Number of villages per				111		13
Average distance from					100	2.98
Trende organice itom	1			opulatio		69
Contract of the Contract of th	Total a	rea		populati		63
Density of population				populatio		615
	Cultiva	ted area		populati		557
per square mile of	6.7	2000				
	Culture	ble area		opulation		86
			[Kural]	populati	OB	78
Number of resident far	nilies ne	e accomisi	house	J Villag		1-22
Times of the second sec	ritation from	- occapion	e recomme	Town	B 200	1.04
Warmhan of manager man	ind	homen		1 Villag	80	5.74
Number of persons per occupied house Towns						
Number of persons per resident family (Villages						
Manufect of betsoms bet	resident	mmily		Town		4:71
a state of the state of	10 10 10 10				-	

As has already been stated, more than three-fifths of the whole district consists of arid steppes scantily inhabited by nomad pastoral tribes, and almost wholly deserted at certain seasons of the year; and as most of this area has been returned as culturable, the figures for density of population, both upon total and upon culturable area, are in a manner misleading.

Migration and birthplace of population. Table No. VI shows the principal districts and States with which the district has exchanged population, the number of migrants in each direction, and the distribution of immigrants by tahsíls. Further details will be found in Table No. XI and in supplementary Tables C to H of the Census Report for 1881, while the whole

Proportion per mille of total population.

	Gain.	Loss.
Persons Males Females	45 49 48	91 101 18

subject is discussed at length in Part II of Chapter III of the same report. The total gain and loss to the district by migration is shown in the margin. The total number of residents born out of the district is 18,989, of whom 10,381 are males and 8,608 females. The number of people born in the district and living

in other parts of the Punjab is 35,688, of whom 21,628 are males Chapter III, A. and 14,060 females. The figures below show the general distribution of the population by birth-place :-

	PROPORTION PER MILLE OF RESIDENT POPULATION.									
Forn to		Rural Population.		Urban Population.			Total Population.			
		Malon.	Femsion.	Petradam,	Malcs.	Females,	Persons,	Malcs.	Fourties.	Persons,
The district The province India Asia		964 998 1,000 1,000	054 1,000 1,000 1,000	954 909 1,000 1,000	032 953 955 1,000	952 906 909 1,000	900 991 907 1,800	952 997 999 1,000	952 999 1,000 1,000	953 997 998 999

The following remarks on the migration to and from the Jhang district are taken from the Census Report of 1881 :-

"Jhang is a singularly backward district. Though population is sparse, much of the area consists of arid plains without irrigation of any sort, and the population is really dense in proportion to the cultivated area. Consequently it gives population to every district in the list except Gujránwála, and the emigrants are nearly twice as numerous as the immigrants. The emigration is particularly large to Shahpur, Montgomery, Muzaffargarh, and Mooltan, four neighbouring districts in which canal irrigation has greatly developed of late years. The immigration probably consists to a great extent of people who have left the steppes of the neighbouring districts for the valleys of the two rivers which run through the district, and the moderate proportion of males would seem to show that the migration is permanent; though with the nomad tribes of the bar who travel with their families, the test is perhaps of less value than elsewhere, and it is not impossible that many of the immigrants are graziers with their herds who have come to pasture in the Jhang steppes. On the other hand, the former explanation is supported by the fact that the Mooltan bar, the only one which is separated from Jhang by a river, has sent hardly any immigrants."

The figures in the statement below show the population of Increase & decrease the district as it stood at the three enumerations of 1855, 1868 and 1881 :-

	Census. Persons.		Males.	Females.	Density per aquare mile.
Actuals.	1855	251,769	139,149	112,620	44
	1868	347,043	195,053	158,990	61
	1881	305,296	214,382	180,914	69
Percent-	1868 on 1855	137-8	198-7	136-7	139
	1881 on 1868	113-9	111-0	117-5	114

The figures of 1868 are corrected for transfer of territory; but the district as it stood in 1855 did not include the tracts transferred from Shahpur and Muzaffargarh in 1861. The population of these tracts by the Census of 1855 is said to have been 47,285, which raises the population with which comparison must be made to 299,062, and reduces the percentage of increase

Statistical.

Migration and birthplace of population.

of population.

Chapter III, A. Statistical.

Increase & decrease of population. between 1855 and 1868 to 13.8, or precisely the same as that between 1868 and 1881. So again the density of population per square mile in 1855 would be 52.35, instead of 44.

It will be seen that the annual increase of population per 10,000 since 1868 has been 81 for males, 125 for females, and 101 for persons, at which rate the male population would be doubled in 85.9 years, the female in 55.9 years, and the total population in 69.2 years. Supposing the same rate of increase to hold good for the next ten years, the population for each year would be, in hundreds:—

Year.	Persons.	Males.	Females.	Year.	Persons.	Males.	Females.
1881 1882 1883 1884 1885 1886	295,3 599,3 403,8 407,4 411,5 415,6	214,4 216,1 217,9 219,6 221,4 223,2	150,9 185,2 185,5 187,8 190,1 187,5	1887 1888 1889 1890 1891	419,8 424,0 425,3 432,5 436,9	\$25,0 226,8 225,7 250,5 232,4	194,9 197,3 199,3 202,3 204,8

There seems to be no reason why the rate of increase should Part of the apparent increase is probably due not be sustained. to increased accuracy of enumeration, a good test of which is afforded by the percentage of males to persons, which was 55-26 in 1855, 55.54 in 1868, and 54.23 in 1881. But, as already shown at page 41, the district has, during the lifetime of the present generation, lost much population by migration to neighbouring districts consequent upon the extension of canal irrigation in them, notwithstanding which the extraordinary healthiness of these plains of small rain-fall has enabled the people to increase their numbers more rapidly than in most of the Punjab districts. The urban population has actually decreased since 1868, the numbers living in 1881 for every 100 living in 1868 being 96 only. This is partly due to alteration in the boundaries of the Jhang-Maghiana Municipality, 71 small hamlets having been excluded between 1868 The population of individual towns at the respective and 1881. enumerations are shown under their several headings in Chapter VI.

77.00	Tetal pop	pulation.	Percentage of population of	
Tahuil.		1868.	1861.	1881 on that of 1866.
Jhong Chiniot Shorket		151,820 100,427 85,794	129,941	113 117 111
Total district		347,043	395,296	- 114

Within the district the increase of population since 1868 for the various tahsils is shown in the margin. Changes of boundary make it impossible to compare the figures for 1855 by tahsils.

Births and deaths.

Table No. XI shows the total number of births and deaths registered in the district for the five years from 1877 to 1881, and the births for 1880 and 1881, the only two years during which

1 1	1880.	1851.
Malea	17	19
Femalea	14	16
Fernons	31	35

births have been recorded in rural districts. The distribution of the total deaths and of the deaths from fever for these five years over the twelve months of the year is shown in Tables Nos. XIA and XIB. The annual birthrates per mille, calculated on the population of 1868, were as shown in the margin. The figures

below show the annual death-rates per mille since 1868, calculated Chapter III, A. the nonulation of that year

Statistical. Births and deaths,

on the bo	parach	on or	Fair	at ye	Chi.		_							_	_	
			1906.	1870.	1871.	 1875.	1674.	1875.	1876	LEFT.	1878.	1879.	1880.	1881.	Average.	F
Malse Females Persons	**	::	9 8 9		6 19 7 19 8 18	18 16 18		18 18 18	16 16 16	13 12 12	12 12 12	12 12 13	18	18 19 18	15 15 15	

The registration is still imperfect, though it is yearly improving; but the figures always fall short of the fact, and the fluctuations probably correspond, allowing for a regular increase due to improved registration, fairly closely with the actual fluctuations in the births and deaths. The historical retrospect which forms the first part of Chapter III of the Census Report of 1881, and especially the annual chronicle from 1849 to 1881, which will be found at page 56 of that report, throw some light on the fluctuations. Such further details as to birth and death-rates in individual towns as are available will be found in Table No. XLIV, and under the headings of the several towns in Chapter VI.

The figures for age, sex, and civil condition are given in great details in Tables Nos. IV to VII of the Census Report of 1881, while the numbers of the sexes for each religion will be found in Table No. VII, appended to the present work. The age statistics must be taken subject to limitations which will be found fully discussed in Chapter VII of the Census Report. Their value rapidly diminishes as the numbers dealt with become smaller; and it is unnecessary here to give actual figures, or any statistics for tahsils. The following figures show the distribution by age of every 10,000 of the population according to the Census figures :-

Persons Males Females	**	0—1 877 359 308	1-2 225 216 243	2-3 595 307 347	3-4 356 336 379	4-5 570 556 586	0-5 1,656 1,574 1,752	5-10 I,600 1,600 1,630	1,018 1,065 963	15-20 695 708 678
1	3	20—25	2530	30—35	35—40	40—45	4550	5055	5560	Over 60.
Fernois Males Fernales	**	684 642 733	728 682 771	791 767 821	443 447 438	659 640 670	503 525 279	51/5 55/6 400	188 155 118	764 835 680

On the subject of age, the Deputy Commissioner wrote as follows in his District Report on the Census of 1881:-

"I do not think much reliance can be placed on the ages recorded. The large mass of the population is quite incapable of estimating age. A. zaraindár's ideas are limited to childhood, youth, manhood, and old age. The figures in most instances only record the result of the combined judgment of the samindar and the enumerator. Men evidently about 30 years of age often in court state themselves to be 12 or 15 years old. As soon as their beards turn grey, they go to the other extreme and make themselves out much older than they are. I have found that grey-beards Age.

# Chapter III, A. Statistical.

Sex.

always exaggerate their age. The proportion of young children seems very high, and leads me to suppose that the ages of children have been generally understated."

The number of males among every 10,000 of both sexes is

Population.	Villages.	Towns.	Total.
All religions \( \begin{align*} 1855 \ 1808 \ 1881 \ Sikhs \ 1881 \ Musalmáns \ 1881 \end{align*}	5,446 5,413 5,728 5,449	5,203 5,149 5,229	5,526 5,564 5,423 5,347 5,735 5,435

shown in the margin. The decrease since 1868 is almost certainly due to greater accuracy of enumeration. In the Census of 1881, the number of females per 1,000

males in the earlier years of life was found to be as follows:-

Year of life.	All religions.	Hindus.	Musalmáns
0-1 1-2 2-3 3-4 4-5	938 946 954 953 914	849 940 941	956 948 960

Civil condition.

The figures for civil condition are given in Table No. X, which shows the actual number of single, married, and widowed for each sex in each religion, and also the distribution by civil condition of the total number of each sex in each age-period. The Deputy Commissioner thus discussed the figures in his Census Report:—

"The number of single persons exceeds that of married by 38 per cent. Calculated on the whole population, the proportion of single, married and widows is as follows:—

"The large proportion of single persons is chiefly among the rural classes, and is accounted for by the fact that the agricultural classes of this district do not marry their children till they are full grown and fit for a grown man's work. A man is usually 25 and a woman 20 before marriage takes place. Indeed, there are examples of women not being married till they are rather advanced in years and reach the age of 35 or more. The custom prevails both among Hindus and Muhammadans. The case with the townspeople is, however, quite different. The Hindus. especially marry their children at a very early age, and would expose themselves to the censure of their family and brotherhood if they did not do so, especially with regard to girls. Ordinarily a child among the Hindús is married or bethrothed as soon as small-pox is over. The Muhammadans are rather indifferent, but nevertheless do not keep their children unmarried for a long time. Married males and married females are 49 and 51 per cent. respectively. The surplus of females is accounted for by the fact that both Hindus and Muhammadans in some cases marry more than one wife. Of widowers and widows taken together, the widowers and widows are 31 and 69 per cent. respectively. The large surplus in widows is attributed to the fact that by custom and religion Hindu widows cannot remarry. This custom, originally Hindu. and almost unknown in Muhammadan countries, has spread to the upper class of Muhammadans to some extent. But among the zamindars Chapter III, A. a widow is treated as a chattel, and remarried to the nearest of kin of her deceased husband.

" Polyandry is unknown in this district. Polygamy is practised by Polyandry and polyboth Muhammadans and Hindus, though to a smaller extent by the latter. Muhammadan law allows four wives at a time. Rich zamindárs in this district marry as many as three or even four, and persons even in poor circumstances do not uncommonly marry a second wife. Thus there are not a few pholis (weavers), dyers (rangrez), blacksmiths, chargers (bangle-makers) in Jhang and Maghiana who have two wives. Rich Hindús marry another wife mostly when the existing wife is barren. A poor Hindú, though childless, seldom marries a second wife

"Infanticide is unknown in this district. The population is for the most part Muhammadan, who, as already pointed out, do not marry their daughters at an early age, and have therefore no pressing demand for money to make provision for marriage expenses. But the excess of males over females, I think, points to the conclusion that often female children are less carefully nurtured, and that the mortality among them is therefore greater. The increase of females since 1868 seems to show that daughters are now more carefully nurtured.\* They are not actually ill-treated, but their birth is often considered a misfortune; and it is easy to understand that neglect, without actual ill-usage, increases the death-rate."

Infirmity.	Males.	Females.
Pusane Himi Deaf and damb Legrous	15 28 16 2	9 71 10

Table No. XII shows the number of insane, blind, deafmutes, and lepers in the district in each religion. The proportions per 10,000 of either sex for each of these infirmities are shown in the margin. Tables Nos. XIV to XVII of the Census Report for 1881 give further details of the age and religion of the

infirm. In the district Census Report for 1881, the Civil Surgeon wrote as follows on the subject :-

"A large proportion of the blind as seen in this district have lost their sight from old neglected inflammation, or inverted eyelashes. Some have lost it during an attack of small-pox, and some from cataract. Technically speaking, the largest proportion of the blind are seen with opacities of the cornea or entire disorganization of the eyeball, next to it with glaucoma and amaurisis, and next with cataract. Women are more blind than men. More women are seen suffering from inverted eyelashes and consequent opacity of cornea than men. Generally this is the first stage in the progress towards total blindness. Smoke and heat of the kitchen has most probably something to do with the greater proportion of blindness in the women. Deaf and dumb and lunatics are more common in the Chiniot tahsil than in the other sub-divisions, amongst Muhammadans than amongst Hindús and Sikhs, and in towns than in villages. I am unable to give any explanation of these facts; but I may mention here that the Chiniot tahsil is (especially the town and some villages towards the north-east, as well as some villages of the Shahpur district in that direction) remarkable for the prevalence of goitre."

Statistical.

gamy.

Infanticido

Infirmities.

<sup>\*</sup> The increase is partly due to increased accuracy of enumeration. - EDITOR.

Chapter III, B. Social and religious life. The climate of Jhang is described at pages 12 and 13. The excessive dryness of the climate, sanitation and the sparseness of the population counteract entirely the evil sanatory habits of the population. Manure heaps and filthy hollows are close to every village, and there is an entire absence of any conservancy arrangements. These evils, which in a worse climate would lead to the outbreak and spread of serious diseases, in Jhang only succeed in slightly injuring the general health at particular seasons. Cholera is almost unknown.

European and Eurasian population.

The figures given below show the composition of the Christian population, and the respective numbers who returned their birth-place and their language as European. They are taken from Tables Nos. IIIA, IX and XI of the Census Report for 1881:—

-	Details.	Males.	Females.	Persons.
Ences of Christian population.	Europeans and Americans Eurasians Native Christians Total Christians	8 1	2 2	10 1 
Language.	English Other European languages Total European languages	7	3	10
Birth-place.	British Isles Other European countries Total European countries	7 7	1	8

But the figures for the races of Christians, which are discussed in Part VII of Chapter IV of the Census Report, are very untrustworthy; and it is certain that many who were really Eurasians returned themselves as Europeans.

## SECTION B .- SOCIAL AND RELIGIOUS LIFE.

Villages and houses.

It is only in the Chiniot tahsíl and the better cultivated portions of the other tahsíls that all the inhabitants of a village live at one hamlet or village. They prefer living at their separate wells. Down south there are many villages that have no village site whatever. Each proprietor lives at his well. The well of the lambardár, and perhaps one other, will have a small hamlet growing up round it, consisting of the huts of the proprietors and his tenants and those of a shop-keeper and a few Kamíns. There are hardly any strong solidly-built villages such as are seen further east. There are four kinds of houses:—

 Kothi or Kothri, a square mud house, containing sometimes one and sometimes two rooms, sometimes with a front room piráh, and sometimes without; the goof is also of mud, and flat. (2). Sáhl, the commonest kind, consists of four mud walls, over which a roof of thatch is thrown, supported on an arrangement of beams and rafters that keeps the centre of the thatch highest, and allows the sides to bend down and overlap the side mud walls. The end walls are built up to meet the thatch. The thatch is made of sur grass strengthened by kiná bands, and is often in one piece. The thatch is called chhappar, and the beams which support it, pat and lara. A new sáhl, with the floor sanded and sprinkled with fresh water, is cool and comfortable.

(3). Kurhá is a cabin of thatch or screens. There are several modes of arranging them. One of the simplest is to take a piece of thatch and prop it up by three sticks, one in the centre and one in the middle of each end. The sides of the thatch fall down on either side to the ground. The one open end is blocked up by a

screen, and the other serves as the doorway.

(4). Pakhi is simply a moveable roof of tili. It is most used by graziers in the Bar. It is propped up by four or five poles, and under it the family lives. There are no walls to it of any description.

Besides the villages proper, there are jhoks, ráhnás, and bhainís. Jhok is the name generally applied to the head-quarters of camel-owners, and ráhna to that of cattle graziers. A ráhna is the name applied to all the temporary abodes of large collections of graziers in the Bár. Bhaíni is another name applied to the head-quarters of a herd.

Among the appendices to Mr. Steedman's Settlement Report will be found a comprehensive list of all the household furniture used by zamindárs. What a man uses depends entirely upon the position he holds or thinks that he ought to hold. It is a well-established fact that zamindárs use very much more expensive articles than they did 20 or 25 years ago. Formerly all their utensils were of earthenware, except a few indispensable metal articles. Now a well-to-do zamindár has almost everything in metal. English crockery and glass tumblers are also coming in fashion.

The poor zamindar's clothes are a white cloth tied round his loins, and reaching petticoat-like half way below the knee, called majhla; and another white cloth thrown over his shoulders, called challar. Another piece of thin cloth, pag, is twisted round his head, leaving the top bare, and, with a pair of shoes, completes his attire. In the cold weather he wears in addition a blanket, kamal. In Chiniot even the better zamíndárs, zaildárs, and such like, do not wear anything more, not even a kurta. Southwards almost every lambardár wears a kurta in addition to the chaddar and majhla. Some of the lungis worn in this district are of extremely pretty check patterns, the ground being generally white. White is the proper colour for the turban. In the Chiniot tahsil the zamindárs who are connected with the Bár are fond of wearing a turban of dark cloth with a check pattern, or only stripes of red or vellow running through it. This is very short in length, and is twisted and worn in two or three folds round the head. It gives a marauding look to the wearer. Only a few men in the district

Chapter III, B.

Social and religious life.

Villages and houses.

Nomad campa.

Household furniture.

Men's dress,

Social and religious life.

Women's dress.

Chapter III. B. affect a European style in their costume, and they are properly disliked by their neighbours.

> The women of the poor zamindar class wear the majhla, always white in colour, tied in a slightly different way from the men. It is worn longer and tighter, especially about the hips. Trousers, paijamas, are tabooed. Certain classes of women in the towns wear them, but not a single zamindar woman. A boddice (choli) and a chaddar worn over the head are the other garments. The choli is usually brightly coloured. The chaddar is either white or of some dark sombre colour. Young unmarried women sometimes wear bright coloured chaddars, but this is seldom As with the men so with the women, there is considerable variety in the quality of the clothes worn by individuals of different positions. Increased prosperity has led to increased expenditure. The above description refers to the ordinary clothes worn by zamindárs only. The Hindús, men aud women, belonging to the towns are but little engaged in agriculture, and dress very differently.

Ornaments.

The wearing of ornaments is almost entirely confined to the women. A man is contented with his signet, chhap, and perhaps one other ring chhalla, and an amulet, bahatta, also ornamental, tied just above the elbow. As for women's ornaments, their name is legion. Those worn by almost every zamindárni are kangan, a plain bracelet; vaiian, earrings; chhalla, a plain finger ring; hassi, a necklet; bahatta, an amulet, similar to those worn by men. Nose rings are very seldom worn.

Food.

The food of the nomad population of the Bar is very different from that of the agricultural residents of villages near the rivers. It is estimated that a resident of the Bar consumes only one-third the quantity of food grain eaten by the ordinary cultivator, and Mr. Steedman's opinion is that the proportion is still smaller. One is constantly told that sometimes the grazier for days goes without any food other than milk and substances made from milk. Milk is, it may be almost said, the staple food of the district. The ordinary grazier as often as not, instead of making bread for his evening meal, simply mixes his flour in the milk and warms it over a fire. In the morning he has a draught of buttermilk, and later on a small chapáti, and another drink of buttermilk. Milk is usually drunk with the evening meal. The table below gives the food of an agriculturist for the different months :-

Months.					Food.		
Chet	209	484		202	Chapatis of barley, peas, and wheat flour. Buttermilk with morning and milk with even- ing meal. Green gram pods and carrots are also eaten.		
Baisáki	1	449	***		Wheat chapatis, and vegetables.		
Jeth	- ar	900	274	446	Wheat chapatis, pila berries, melone vece-		
Hár, Sá	wan, B	adrú, .	Assú	103	tables, buttermilk, and milk as before.  Wheaten chapatis, melons in Har, buttermilk and milk as before.		
Katik, Phági	Magh an			ágh,	Wheat, joudr, bdjrd, and maize chapetis. Turnips cooked in milk. Buttermilk and milk as before.		

Zamíndárs have two meals a day, the morning meal from 10 to Chapter III, B. 11 o'clock, the evening one from 6-30 to 8 at night. The evening meal is taken later in the cold weather than in the hot. The morning meal remains at much the same time all the year round. When the pilá berries are in, only half the ordinary quantity of grain is eaten. When turnips are ready, one-fourth of the usual amount of bread. Well-to-do zamindárs live upon wheaten bread, rice, and flesh. The Sials are much given to liquor.

The average annual consumption of food grains by a family of

Wheat Gram Jowar China Barley	120	five persons, two of whom are children, was estimated for the Famine Report at 30 maunds in the villages, and 33 maunds in the towns. The details for the villages are as shown in the margin. For a family
Dail of sorts and		in the town, add to the above 64 maunds
grain	120	of wheat and half a maund more of dal
Tota	11,200	and miscellaneous grain, and cut out the china.

- The first month in the year is Chetar and the last Phagan. Modes of reckening They are given in order below, with corresponding English months. The spelling gives the local pronunciation :-

Chetar m	iddle of	Mary	ch to :	middle	of Ay	pril.
Visakh	11	Apri	1	81	M	sy.
Jeth	9.9	May		21	Ju	ne.
Hár	11	June		93		dy.
Sawan	9.9	July		13		aguet.
Badro	118	Aug		15		ptember.
Assu	91		ember	100		rtober.
Katch	11	Octo		33		ovember.
Maghar	39		mber	19		cember.
Poh	11		mber	19		nuary.
Magh	31	Janu		31		bruary.
Phagan	98	Febr	unry	11	M	arch.

The days are divided into eight pahrs (prenounced pahur) of 3 hours each. The following are recognised times of day:—

As t	sed by			
Muhammadaus.	Hindús.	English equivalent.		
Dhammi welá  Namáz welá  Deh Übhre	Do Do Do Vaddi Peshin	3 A. M.  The last hour of the night before dawn, Daybreak. Sunrise. Two hours or an hour-and-a-half after sunrise. Bread time, 9-10 A. M. Midday. 3 P. M. 4 P. M.		
Digar Namashan Khuftan Sota wela	Do. Sandhian wela	Half an hour before sunset. Just after sunset.		

Social and religious life.

Food.

Chapter III, B.
Social and
religious life.
Religion.

Table No. VII shows the numbers in each tabsil and in the whole district who follow each religion, as ascertained in the Census of 1881, and Table No. XLIII gives similar figures for towns.

and the same of th								
Religion.	Rural	Urban	Total					
	popula-	popula-	popula-					
	tion.	tion.	tion.					
Hindű	1,357	4,397	1,642					
Sikh	79	175	88					
Musalmán	8,564	5,425	8,270					

Sect.	Raral popula- tion.	Total popula- tion.
Sunnis Shiahs Others and unspe-	962-6 37-2	963·6 36·2
cified	0-2	0.2

Tables Nos. III, IIIA, IIIB of the Report of that Census give further details on the subject. The distribution of every 10,000 of the population by religions is shown in the margin. The limitations subject to which these figures must be taken, and especially the rule followed in the classification of Hindús, are fully discussed in Part I, Chapter IV of the Census Report. The distribution of every 1,000 of the Musalman population by sect is shown in the margin. Shiahs are unusually numerous

in Jhang, a fact due to the influence of the Shiah Kuraishis of Shorkot and Hassu Balel, and of the Sayads of Uch who are connected with the famous Sayad family of Belot in Dera Ismail Khan. They are of the most bigoted type. They observe the Muharram most strictly, abstaining from all luxuries for the first ten days of the month, and on the 10th they accompany the Taziahs bare-headed and bare-footed. They throw dust on their heads and beat their breasts with extreme violence, and allow neither Hindu nor Muhammadan to approach the Taziah without baring his head and removing his shoes.

Table No. IX shows the religion of the major castes and tribes of the district, and therefore the distribution by caste of the great majority of the followers of each religion. A brief description of the great religions of the Punjab and of their principal sects will be found in Chapter IV of the Census Report. The religious practice and belief of the district present no special peculiarities; and it would be out of place to enter here into any disquisition on the general question. The general distribution of religions by tahsils can be gathered from the figures of Table No. VII; and regarding the population as a whole, no more detailed information as to locality is available. But the landowning classes and the village menials are almost wholly Musalmán, the Hindú and Sikh religions being practically confined to the mercantile classes and their priests. The Deputy Commissioner wrote as follows in the Census Report of 1881:—

"The Pirchats or Hindú priests are to the whole Hindú population as 1 to 133'3, the Muhammadan priests to the Muhammadan population as 1 to 14,285. The Hindú priests residing in the district are not the sole pastors of their people. Large numbers from Gujránwála, Lahore and Amritsar pay periodical visits to their disciples. In the same way the greater number of the Muhammadan population are the followers of the Makhdúms of Baháwal Hak in Mooltan, or worship at Hujra Shah Mukim and Pak Pattan, the seat of the patron saint of

the Sials, Bawa Farid. The Makhdums of Mooltan exercise very great influence over the Muhammadan population of the district. When a Makhdum comes to pay his periodical visits to Jhang, hundreds are seen flocking around him and paying him homage. But the district is not without its own Makhdums, who have followers in this district as well as the neighbouring districts of Dera Ismail Khan, Dera Ghazi Khan, Mooltan and Montgomery. The family of Makhdum Karm Husain and the Uch Sayads are very much revered by the people."

A considerable number of fairs are held in this district during the year. A list of the more important is given below :--

Place where fair is held.	Person in whose honour it is hold.	Date.	
I. Shah Jiwana 2. Pirkot Sadhana 3. Athara Hasara 4. Pir Abdul Rahman 5. Kakki Kathia 6. Bhamrala 7. Hassu Ralei 8. Mari 9. Rodu Sultan 10. Jbang 11. Sadik Nihang 12. Masan 13. Bulla Patowana 14. Eirana	Pir Abdul Rahman Pir Kalia Haji Kasim Bali Shah Balai Fakir Gul Muhammad Hir and Bauja Shah Sadik Nihang Jinda Kaliana Man Lai Kanju	27th Beisakh.  Brd Friday in Chet.  Brd Thursday in Chetar.  9th Zalhaj.  27th Har.  19th Har.  19th Har.  19th Har.  19th Har.  19th Har.  11th Baisakh.  Chetar.  Chetar.	

Table No. VIII shows the numbers who speak each of the principal languages current in the district separately for each tabsil and for the whole district. More detailed information

Langua	Proportion per 10,000 of population.		
Hindustáni	***	400	8
Bagri		1000	1
Punjabi	any.	101	9,981
Jatki			2
Pashto	114	No.	7
All Indian lang	uages	224	9,999
Non Indian lan			1

will be found in Table No. IX of the Census Report for 1881, while in Chapter V of the same report the several languages are briefly discussed. The figures in the margin give the distribution of every 10,000 of the population by language, omitting small figures. Many of the people shown as speaking

Punjabi might more properly have been returned as speaking Jatki, the language or dialect of the south-western plains of the Punjab. There are several dialects in the district. West of the Jhelam a dialect resembling that of residents of the Thal is used. South of Shorkot a patois resembling that of Mooltan is spoken. The Chiniot zamíndárs from the north of the tahsíl have quite a different accent from those further south. The patois of the Bár is the most uncouth of all. Among the appendices to Mr. Steedman's Report will be found a list of proverbs and sayings, and also a collection of songs, which will serve to give some slight insight into the language spoken by the people.

The character and disposition of the people is thus described by Mr. Steedman:—

"The people of the Jhang district are a well built, handsome, sturdy race. The Siáls especially furnish many very fine, stalwart men. In their intercourse with European district officers they are frank and open. They betray no signs of timidity or cringing. Many of the

Chapter III, B.

Social and religious life. Religion.

Language.

Character and disposition of the people. Chapter III, B.

Social and religious life.

Character and disposition of the people.

Education.

older men are often outspoken to the extent of rudeness, but they never mean to be insolent. They are by no means devoid of humour. A good deal of somewhat coarse raillery goes on. A joke or an appositely quoted proverb is much enjoyed. They are very proud of the assistance that they gave us in 1848-49, and again ten years later. A more loyally-disposed set of people I do not think exists in the Punjab. After three years' constant intercourse I find I can reckon among the more influential many friends whom I shall leave with sorrow, and always be glad to meet again. The Káthiás and the Siáls in the Shorkot tabsil are all extremely fond of sport, and word sent round a few days before will bring together all the villagers in the neighbourhood to drive pig. The Chiniot zamindars have much less go in them than those of Shorkot. The Vichanh zamindars may be put in the same class. Hospitality is practised by many, but most are inclined to exaggerate what they do in this way. I have noticed that those who most frequently din into one's ears the expense they are put to in entertainment are at heart the least liberal of all. The leading zamindars of Shorkot are generally men of large property, and they have hitherto been spending considerable sums in drink and licentiousness. In Jhang and Chiniot there are very few zamindárs who drink. The district generally does not bear the best of characters for morality. The Sial tribe is the greatest sinner. There is a difficulty in disposing of the Sial maidens in wedlock, and delayed marriages are accompanied by the same results here as elsewhere.

Tables Nos. XL, XLI and XLII give statistics of crime; while Table No. XXXV shows the consumption of liquors and

narcotic stimulants.

Table No. XIII gives statistics of education, as ascertained at the Census of 1881, for each religion and for the total population

	Education.	Rural population.	Total population.
Malos.	Under instruction	115	170
	Can read and write	542	672
Females, Males,	Under instruction	4·2	7:0
	Can read and write	5·2	6:5

of each tabsil. The figures for female education are probably very imperfect indeed. The figures in the margin show the number educated among every 10,000 of

each sex according to Census returns. Statistics regarding the attendance at Government and aided schools will be found in Table No. XXXVII. The distribution of the scholars at these schools

by religion and the occupations of their fathers, as it stood in 1881-82, is shown in the margin.

Besides these schools

Besides these schools there were in 1882 no fewer than 121 Maktabs or Muhammadan indigenous schools, with 1,011 scholars and 41 Pátshálás or Hindú indigenous schools with 601 scholars in the district, The Khatris and Arorás

Details,	Boys.	Girls,
Europeans and Eurasians Native Christians Hindús Musalmans Sikhs Others	1,131 811 69	146 164 13
Children of agriculturists of non-agriculturists	782 325	202

Nove.-The last two lines refer to village schools only

among Hindús and the Khojáhs and Siáls among Musalmáns chiefly avail themselves of the means of education; the agriculturalists make but little use of them. The Deputy Commissioner wrote as follows in his Census Report of 1881:—"It must not be "forgotten that of the persons shown as able to read and write "not less than nine-tenths are petty shop-keepers who can write accounts in their books and nothing more." The number of boys that attend school is but a small percentage of the total population. The number of agriculturists returned as scholars appears to be open to suspicion when compared with the relative numbers of Hindús and Muhammadans. As a general rule, Hindús are not agriculturists. They may be small landowners, but their trade or calling is not agriculture.

The pet crime of the district is cattle-lifting. There were 921 non-bailable offences reported during 1879, of which 501, or 55 per cent., were cattle theft. Another favourite offence is running off with another man's wife. Wives are looked upon by ordinary zamindárs as chattels, things for which a certain sum has been paid, and for which a certain sum may be realised. If his wife elopes, the zamindár suffers injury to his property. His morals are not much offended, nor his self-respect. If he discovers where she is, he does not scruple to take her back, but he insists upon compensation for the loss of her services, and the certain amount of deterioration. If his demands are satisfied, he returns home as if nothing had happened. Cattle-lifting is a pastime to the denizens of the Bar. They do not see anything wrong in it. Any family that owns a herd is constantly losing and gaining animals by theft. The police are seldom called in; the sufferer must be very hopeless when he has recourse to this last resort. What takes place when a man loses an animal, is this. If by following up the tracks the beast is run down among other cattle, or after many days' search the thief is discovered, there are two modes of procedure. The one is an amicable arrangement. The owner of the stolen property discovers himself. The thief admits his claims, and satisfies him by making over other cattle worth considerably more than the stolen ones. The rightful owner is also treated with the greatest consideration until the matter is arranged. The stolen cattle are never given back. To do so might prove inconvenient in the future. The other procedure is different. The stolen property is often discovered in the possession of a family or tribe of influence, or living in a part of the country where the owner is not known, and where he does not think it advisable to seize the cattle or claim them. Instances are known where a claim having been made, the tables have been turned upon the claimant with serious results. He is seized, and a report is made at the nearest thana that he was caught just outside the homestead walking off with two cows, and when the Thanadar comes he will find the cows and captured one's tracks, and as much evidence as he needs. After finding stolen cattle one plan is to send word off to the thana that your stolen cattle have been found. The Thánádár comes, and an arrangement is effected that benefits all alike. There are no arrests. The Thánadár is squared. The complainant discovers that he has made a mistake,

Chapter III, B.

Social and religious life.

Education.

Crime.

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Crime.

and that the cattle are not really his. The accused makes the complainant a handsome present, and he departs. Another plan, and the one perhaps most generally adopted, is to lurk about the homestead where the stolen cattle are, and carry off at night an equal number to those that were lost. So long as the Bar people prey upon themselves, not much harm is done, but when they raid the cattle and plough bullocks of agriculturists in settled villages, they cannot be punished too severely. It is a fact that several villages lying near the Bar have been at times quite crippled from the loss of their plough oxen. The youth of the Bar show off their prowess by lifting the finest animals they hear of. Stolen property in Jhang slang is known as rat jam, "born of the night." Several lines (rassa) for forwarding stolen cattle run from this district to Mooltan, Montgomery, Gujránwála and Sháhpur. To forward cattle is rassa lena. Except pure agriculturists the men of this district are born trackers. In tracking, three or four men join. Each has a cudgel about five feet long. As each foot-print is found, two lines are drawn on the ground before and behind the track, if the tracks are not very clear. Where the tracking is easy, only one line will be drawn, and the trackers follow up the tracks walking at full speed. If the tracking is difficult, one man remains at the last found track, and the others make casts in all directions. Most wonderful feats in tracking are accomplished in this and similarly situated districts. Evidence as to tracking is too often thrown aside as incredible.

Poverty or wealth of the people.

It is impossible to form any satisfactory estimate of the wealth of the commercial and industrial classes. The figures in the

Assessment.	1809-70.	1570-71.	1871-72.
Class I Number faxed Amount of tax Class III Amount of tax Class III Number taxed Amount of tax Class IV Amount of tax Class IV Amount of tax Class V Amount of tax Number taxed Amount of tax Total Number taxed Amount of tax	759 7,794 183 2,794 24 931	944 18,408 230 8,910 235 9,165 125 6,804 90 9,882 1,734 52,519	441 3,903 382 5,456 126 3,940 1 115

The figures in the marginshow the working of the income tax for the only three years for which details are available; and Table No. XXXIV gives statistics for the license tax for each year since its imposition. The income tax returns for 1870-71 show a

total of 1,734 persons enjoying incomes above Rs. 500 per annum. In the following year, 950 are returned as having incomes above

	1	1880-81.		1881	-82
		Towns.	Villagos	Towns.	Villages
Number of Boenses . Amount of fees .		366 4,975	857 13,470	330 4,580	988 15,270

Rs. 750. The distribution of licenses granted and fees collected in 1880-81 and 1881-82 between towns of over, and

villages of under 5,000 souls, is shown in the margin. But the numbers affected by these taxes are small. It may be said generally that a very large proportion of the artisans in the towns are extremely poor, while their fellows in the villages are scarcely less dependent upon the nature of the harvest than are the agriculturists themselves, their fees often taking the

form of a fixed share of the produce; while even where this is not Chapter III, C. the case, the demand for their products necessarily varies with the prosperity of their customers. Perhaps the leather-workers should be excepted, as they derive considerable gains from the hides of the cattle which die in a year of drought. The circumstances of the agriculture classes are discussed below at the end of Section D of this Chapter.

Tribes, castes and leading families.

### SECTION C.-TRIBES, CASTES AND LEADING FAMILIES.

Table No. IX gives the figures for the principal castes and Statistics and local tribes of the district, with details of sex and religion, while Table distribution of tribes No. IXA shows the number of some of the less important castes. It would be out of place to attempt a description of each. Many of them are found all over the Punjab, and most of them in many other districts, and their representatives in Jhang are distinguished by few local peculiarities. Some of the leading tribes, and especially such families as are important as landowners or by position and influence, are briefly noticed in the following pages ; and each caste will be found described in Chapter VI of the Census Report for 1881. But in these western districts tribe is a far more important element than caste, the latter being little more than a tradition of origin, a Sial often hardly knowing that he is a Rájpút. The Census statistics of caste were not compiled for tahsíls, at least in their final form. It was found that an enormous number of mere clans or sub-divisions had been returned as castes in the schedules, and the classification of these figures under the main heads shown in the caste tables was made for districts only. Thus no statistics showing the local distribution of the tribes and castes are available. But the general distribution of the more important landowning tribes has been broadly described at pages 26, 27, followed by an outline of the history of their colonisation of the district.

A tabular statement is given on the next page, indicating Amount of land held the amount of land held by each tribe in proprietary right in proprietary right and the amount of land cultivated by each tribe. Jats and Sials own nearly half the cultivated area between them, and cultivate nearly two-thirds. Besides the two tribes above mentioned, Hindus and Sayads alone hold more than 10 per cent. of the cultivated area. Sials hold but little property in Chiniot, but are strong in the two other tahsils. Chaddhars are located almost entirely in Chiniot, and so also are the Bhattis. There are no Beloch proprietors in Chiniot. Two-thirds of their property is situate in the Jhang tahsil. Sayads are large proprietors in Jhaug and Chiniot. Much land is held by Jats in all three tahsils ; but most in Chiniot, least in Jhang. Miscellaneous Muhammadans are strongest in Chiniot, and Hindús in Jhang. The above areas are Settlement figures, and the classification is tribal; while the Census figures of Table No. IX are arranged by caste, and not by tribe. Some tribal details will be found in the following pages.

and cultivated by each tribe,

### Chapter III, C.

Tribes, castes and leading families.

Amount of land held in proprietary right and cultivated by each tribe.

	17	Torat	15,717 15,717 10,126 99,126	23,042 23,042 136,091 130,091	11,132 11,132 97,082 97,082	40,891 40,891 3,32,230 3,32,230
	16	.airbaiH	710 779 4,341	3,740 1,314 22,501 -9,602	1,568 1,003 12,711 7,403	89,553 21,738
	Tes Tes	Miscellaneous Mu-	2,018 1,596 12,914 10,432	1,294 5,198 6,474	605 444 5,291 4,024	20 20 20 20 20 20 20 20 20 20 20 20 20 2
	14	Kemins	205 1,489 564 8,016	1,000	1,229	4,387 2,003 30,897
	13	Jat.	38,000 2000 2000 2000 2000 2000 2000 2000	4,704 8,128 27,803 50,574	1,690 3,486 12,491 31,734	13,966 19,619 78,976 135,100
	200	AdeistuA	13.1.1	2,900 1,724	1,101 386 10,139 3,850	1,481 642 13,039 5,674
	=	Sayad,	2,675 814 18,425 4,205	2,269 814 17,352 5,299	5,067 2,6067	5,595 1,985 40,844 12,110
1	2	The Chart	1111	3872	96 600	140 161 961 962
	0	Beloch,	1111	25,73 19,13 19,13 20,13 30,13	855 855 7,137	3,589 5,014 24,396 19,243
	66	Elbán.	1,340	2 2 2 1	1111	1,340
	r-	Blucel	7,671	140		532 757 5,717
	9	Kharal.	141 161 883 838	1111	1111	144 151 830 838
	100	Kathla.	1111	1111	3,163 1,404	295 147 1,404 1,404
	-	Chaddbar.	1,706 1,950 14,180 11,698	1111	9236	1,900. 2,077 15,601 12,949
-	6.3	TFIS	170 170 256 1,075	7,835	3,945 3,042 37,004 26,659	11,839 10,380 78,869 63,941
	QI	DETAIL	No. of proprietary holdings, Acres owned	No. of prepriotary holdings ,, onlivating ,, Acres owned ,, outlivated	No. of proprietary holdings ,, cultivating ,, Acres owned ,	No. of proprietary holdings outlivating ,, Aures owned ,
1						
-	71	ThatlaT	CHIMIOT.	JHANG.	Suerror.	TOTAL OF ADDITION.

The meaning of the word Jat is exceedingly indefinite in the Jhang district. Mr. Steedman, criticising the classification of the Census of 1868, in which the mass of the population was classed as "Miscellaneous Muhammadans," writes as follows:—

"The Rajput, Sayad and Beloch tribes excluded, the cultivating and proprietary body consists almost entirely of a vast number of agricultural tribes, each known by a different name, but comprehended within the one universal term Jat. Ethnologically I am not sure of my ground; but if these tribes are not Jats, who are they? They are all converted Hindús. Of this there is no doubt, and all are engaged in agriculture or cattle-grazing. Some of them are recognised as Jats; and in appearance, customs and traditions they do not differ from their unrecognised brethren. For statistical purposes it would be surely a much more useful and convenient arrangement to class these agriculturists as Jats, though they are not true Jats, whatever they may be, but only ploughmen and cattle-graziers."

The principal divisions of the Jats of Jhang, as returned in 1881, are shown below. The figures are rough approximations. The several tribes are described in the following pages:—

SUB-DIVISIONS OF JATE.

Name.		Number.	Name,	Number.	Nam	e.	Number.	
Itil Bh Bh Th Sia	ván iwál ntti ntta ntím i pra		338 2,874 1,612 640 437	Langa	298 5,010 673 341	Joyá Dhúdhi Khichi Hiráj	900 000, 000 000 000 000	284 366 1,533 1,578 483 847

Note.-Many of these tribes are returned among Rajputs also.

The great mass of the Rajput population of Jhang consists of tribes of local importance, such as the Sials, who are known more commonly by the name of their tribe than by that of their caste. Approximate figures for some of the most important as returned at the Census of 1881 are shown below. The several tribes are noticed in the following paragraphs,

SUB-DIVISIONS OF RAJPUTS.

Name. June		Name.	Number,	Name.	Number.	
Bhatti Bhutta Panwar Janjúa Joya	3,231 490 1,078		2,054 983	Khokhar Wattú Hiráj Chaddhar Páolí	6,605 246 345 13,390 1,244	

Note. - Many of these tribes are returned among Jats also.

The Nauls, as has been mentioned before, occupied the lowlands fringing the Chenáb around the site of Jhang before the

Chapter III, C.

Tribes, castes and leading families.

The Jate.

The Rajpute,

The Nauls.

Tribes, castes and leading families.

The Nauls.

Chapter III, C. Siáls. Nothing trustworthy is known about their origin, but their traditions carry their family back to one Dhan, a Raja of Bikanir, who left his native country and settled at old Jhang. At that time the country was under a dynasty of Brahmin kings. Naul, the ancestor of the Naul tribe, was a son of Dhan. The Siáls for some time after their first arrival were subject to the Nauls and paid tribute through them, but they appear to have always been refractory and rebellious dependants. The Nauls were reduced by the Siáls under the leadership of Mal Khán Chuchkána. The Naul leader was then Todir. They now hold several villages near Jhang and in the Kachhi. Sujáwal is a zaildár and their headman. He lives at Pakkewala, about three miles from Jhang on the road to Shahpur. The Nauls prefer cattle-breeding to agriculture, and cattle-lifting to either.

The Bhangus and Mirak Sials.

The Bhangus are another aboriginal tribe, whose origin is lost in the depths of antiquity, which is another way of saying that they are too stupid or too careless to connect themselves by a fictitious ancestry with some Rájpút Rája or a Muhammadan Emperor. They can give no account whatever about themselves. They were rulers over the Shorkot country before their displacement by the Sials. Mirak, who founded the chieftainship of Mirak, was a Nithrana Sial, a descendant of Nithar, brother of Mal Khan, the founder of Jhang. He was Diván to the Bhangú ruler, but rose in insurrection against his master, and managed to make himself master of the country. The seat of government was previously Shorkot, but he founded Mírak Siál six miles north, built a fort, and ruled the country from there. At Walidad Khan's reigns, Sultan Bala, the 4th or 5th in descent from Mirak, was the chief. and was reduced to submission by Walidad Khan. The male line is now extinct. Two female descendants still live in poverty at Mirak, and with them the line ends. The village and fort of Mirak are situate on a promontory of high ground between the lowlands of the present Chenab valley and a wide depression in which the river flowed long ago, and embosomed in a fine grove of date palms in one of the most picturesque spots in the district.

The Rajos Sayada.

The Sayads of Rajoá were virtually an independent clan until the reduction of the country by Ranjit Singh. They were once defeated and subdued by Walidad Khan, but he restored the country to them immediately afterwards out of respect for their holy origin. The Rajoa Sayads have always been noted as a brave, manly, military clan, and their independence was probably as much due to their quality as warriors as to the sacred character of their family. They are a branch of the Bukhárí Sayads, the principal Sayad family in this district. Their ancestor was Shah Daulat, a Sayad fakir, who came from Uch Sayad Jalál in Bahawalpur, and settled in this part of the Punjab. He remained for twelve years in the river Chenáb opposite the village of Thatti Bálá Rája, rapt in religious meditation. The Chenáb contains numerous islands, and it is probable that the faktr, though said to have lived in the Chenab, used at times to rest himself on dry ground. The next stage in his career was the performance of many wondrous miracles, and he then left the river and settled Chapter III, C. at Rajoa where he died, and where his tomb is still to be seen. The fame of the fakir and miracles that he did reached the ears of the emperors of Dehli, and the great Akbar granted him by sanad all the tract round Rajoa, now comprised in the Rajoa estates. He married a Khokhar's daughter. The power and influence of the family steadily increased. The Sayads were never defeated before they suffered a reverse at the hands of Walidad. The story tells us that they stole Walidad's camels, and that Walidad punished them for not restoring them. The Sayads rendered good service in the Mooltan campaign, and were engaged in much sharp fighting with Naráin Singh round Chiniot, in which they lost several men. They were fully rewarded by the British Government. The present heads of the family are Haidar Sháh and Bahádar Sháh, between whom a bitter enmity exists. Fatah Darya, who holds more than three-fourths of the Rajoá property, is a zaildár, and lives at Kot Amír Sháh. Sayads, with the exception of Bahadar Shah, are a thriftless, extravagant, careless lot of men, and excessively embarrassed by debt. Bahádar Sháh is rather economical, and has saved money.

Another independent chief of Sayad extraction ruled in what is now known as the Shah Jiwana ilaka. This Sayad family is not the same as that of Shah Jiwana, though their villages adjoin. The family at some period before the reign of Walidad ruled over a large tract of country. Their only important chief was Latif Sháh, who was a Sayad of Uch Sayad Jalál in Baháwalpur. He first settled at Alipur on the Chenáb, and thence migrated to Bhambrálá, where he founded a small State. The boundaries of the Sayad's rule were the Chenab and the countries of the chiefs of Massan and Bhairo on the south and west, and Kirána and the Ríbán country on the east. Latif Sháh, proprietor and lambardár of village Latif Shah, is a descendant of his namesake. The family are now well-to-do zamindars.

The Khokhars of Nadhagarh and Bhairo were an influential clan in the early days of Jhang history. Besides the two villages above mentioned, the tribe owns many others close by, in the north of the district near Kot Isá Sháh. The Khokhars\* derive their descent from Kutab, a descendant of Ali, the son-in-law of the prophet. They apparently came from Arabia in the train of the first Muhammadan invaders. Nadhagarh was founded by one Salah Khan. The tribe became independent at the breaking up of the Mughal empire. The limits of the Khokhar supremacy were-to the west the Jhelam, to the south Kot Khan and Katiánwáli, to the east the country of the Sayad chief Sháh Latíf, to the north that of the Beloches of Sahiwal. The Khokhars were in a state of chronic warfare with the Beloches, and Walidad took advantage of a Beloch victory to subdue them and annex their country. Subsequently they revolted, and, aided by their old enemies, the Beloches, gave battle to Walidad's lieutenant, an Aliáná Siál, by name Sharif Khán. Sharif Khán defeated the

Tribes, castes and leading families.

The Rajos Sayads.

The Latifpur Sayad, descendants of Pir Fatah Khan.

The Khokhars,

<sup>\*</sup>The Khokhars are, Mr. Steedman believes, a branch of Rajputa. The above information has been taken from the Shabpur Settlement Report.

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Tribes, castes
and leading
families.

insurgents, and was given the lands of Kot Khán in jávír, where Kotla Sharífá exists to this day. The Khokhars are among the best of the Jhang zamíndárs. They are hardworking, thrifty agriculturists, not given to crime. The lambardárs of Bhairo and Laú are their chief men.

The Sidls of Massan.

The chief of Massan was a Siál who ruled over the Vichanh. The town of that name was founded by Rái Massan of the Sáhibána branch of the Siáls. Nothing is known of the family except that Walidád subdued them. There are now no representatives of any standing.

The Sayads of Uch.

The Sayads of Uch are the last of the clans of Jhang who can be said to have ever been semi-independent. The family is of recent date. Their founder was a Bilet Sayad, Gul Imám, who wandered across the Thal from his native village on the Indus in the time of Inavatulla Khan. He first settled at Rodú Sultán, a village in the Kachhi, where another fakir of that name had his abode. This fakir became his disciple. The Bilot fakir then took up his residence on one of the high sandhills of the Thal called Sammu-bhir, and commenced to work miracles. In a few years he had obtained so much influence in the neighbourhood that he commenced to construct the Uch fort. Inayatulla is said to have assisted and to have worked as a bricklayer. He certainly held the fukir in great esteem, as he made over to him a number of villages in jagér. Gul Imam seems to have been a man of much ability and large ideas. Besides the three castles in Uch called Chándná, Hazára and Soní, he built forts at Sihda Daulúána, Máchhíwál, and Sat. The ruins of the six forts built on the edge of the Thal remain still, and attest the enterprise of the fakir. They must have been places of much strength in the 18th century. The most important of Gul Imam's public works was the construction of the Uch canal, leaving the river Jhelam close under Máchhíwal and tailing off in Uch. The canal was one of those big ditches that are so extremely useful. Most of the water was monopolised by the fakir for irrigating Uch, though the excavation was effected by the forced labour of all the country through which it passed. The canal ceased to run about the end of the 18th century, after flowing for some sixty years. Zamindars are inveterate praisers of the days gone by, and love to dilate upon the wondrous prosperity of Uch when irrigated by the canal, how there was a lake under the gates of the fort and town (that are built on the edge of Thal), on which the fakir and his councillors took their pleasure in a boat, how the trees flourished, and how every well had its two or three acres of rice. Verily the glory is departed from Uch. A tumble-down fort uninhabited and in ruins, encircled by a straggling poverty-stricken village, looks down upon a strip of country on whose barren soils, tainted by salts and hard as iron, the only spontaneous growths are a few jal bushes. The few wells are of the most wretched description, the worst in the Kachhi. The few episodes in which the Uch Sayads have played any historical part have been already mentioned in the account of the Sial chiefs. The semi-independence of the Sayads lasted as long as that of the Sials, and succumbed to the advance of Ranjit

Singh. The head of the family is now a boy of 15 or 16 years old. Chapter III, C. The family has gone down in the world. They hold a jagir worth some Rs. 800, but the property has been shamelessly squandered, and the income of the family estates now hardly suffices to pay the interest on the family debts. An attempt is now being made to extricate the Fakir Sahib, as he is always called, from his money difficulties.

The Rihans were in old days the rulers of the Kalowal ilaka, and Izzat Bakhsh was Walidad's governor, but Kalowal only formed a portion of the Sial kingdom for a very short period, and not much interest attaches to the family. Yara is the head of the family, a lambardar of several villages, and overwhelmed with debt-There are only three Rihan villages in the district.

It is necessary now to return to the Sials, whose origin and The various leading history have already been fully related at pages 27 to 36, and to give some account of the principal branches of the tribe. The different families and clans of the Sials are countless. The royal family is the Jalal Khanana. Among the others the more important are the Rajbána, Bharwána, Kamlána, Chuchkána, Máhni, Sargána, Sarbána, Janjiána, Ali Khanana, Diráj, Chela, Perowana, Sajoke, Sahjar, Fakir Siál, Daulatána, Umrána, Khánúwána, Daduwána, Jabowána, Hasnána, Liwána, and Lakhnána families. It is fairly safe to assume that any tribe whose name ends in ana is of Sial extraction.

The Rajbana family is one of the most important, both in point of numbers and in men of note. The Rajbanas are located in Shorkot. Mad and Badh Rajbána, Garh Máhárája, Ranjit Kot, Ahmadpur, many small villages around Kundal Khokhar, and others under the Thal, all belong to them. The family supplies many leading men,-Nusrat of Ahmadpur, Núr of Ranjit Kot, Varyám of Garh Máhárája, Dád of Badh Rajbána, all zaildárs, Kásim and Ahmad, lambardars of Mad, &c. The tribe is descended from Bhopti, third son of Kohli, whose descendant in the 10th generation, Rajjab, gave his name to the tribe. They were originally settled at Alman in the Kachhi. Rajjab died at the time of Lal Khan Sial. His tomb is at Wash Astana. The Rajbanas then moved southwards, and settled in the northern portion of the tract which they now hold. The clan seems to have been a turbulent one. Fighting went on continually between them and the Beloches, Traggars, Mirális and others. The Beloches were driven away from the Chenáb, and the Rajbánás extended their possessions as far as Ahmadpur. This village originally belonged to a tribe of But Jats. The tribe next commenced to raid into the territory of the Jhang Khán, Ináyatulla; but subsequently aided him in his contest with the Mooltan Nawab, and Garh Maharaja (built by Maharaja Kaura Mal) was granted to them. Kasim now became the tribal leader, and in return for assistance, Sultán Mahmúd, the Jhang chief, granted him the Garh Máhárája ilàka in jàgir. He was succeeded by Rajjab, the most able of all the Rajbanas. His first success was the repulse of an expedition sent against him by Sáhib Khán. He built several forts, among others the one still in existence at

Tribes, castes and leading families.

The Ribins.

The Rajbanda.

Tribes, castes and leading families.

The Rajbanas.

Garh Máhárája. Among Rajjab's other deeds are mentioned his co-operation with Khán Beg, Khán Tiwána, and others in an expedition against his brother Khán Muhammad Tiwáná. He shook off the authority of Muzaffar Khán, the Nawáb of Mooltan, and was defeated by him about 1811. It was at Rajjab's instigation that Ahmad Khán, the Jhang chief, was seized and imprisoned by Ranjit Singh on his way back from Mooltan. Rajjab lived in retirement on a liberal jàgàr during his old age, Garh Máhárája and the adjoining villages being under a Sikh Kárdár. His son Khán Beg rendered important assistance to Sir Herbert Edwardes in the Mooltan campaign. Khán Beg died a few years ago, and his son Varyám is now the head of the family. He holds a small pension, half of what his father held.

The Bharwands.

The Bharwanas trace their descent to Bhaire, sixth in descent from Máhni. They were first settled in the Kachhi, somewhere to the north of Kot Maldeo. The Saliana Bharwanas were the most powerful branch, and were, as a rule, hostile to the ruling Kháns of Jhang. At the time of Walidad the Bharwanas resided chiefly in the interior of the Bar. Apparently they did not reside in the Kachhi for any length of time. Their settlements nearer the river were at Dhuin Muhammad and Kaim Bharwans, Walidad, among other acts, put the leader of the Bharwanas, Bakar. in prison. At that time the head-quarters of the Bharwanas were at Rahna Jallúwána in the Bár to the east of Jhang. Walidad attacked this village, but was defeated by the Bharwanas, aided by the Kathias. Then the victorious tribes fell out among themselves about cattle-grazing, and the Káthiás were driven off to the south by the Bharwanas. This clan never seems to have been happy unless it was fighting with some tribe or other. Raids and reprisals between the Bharwanas on the one side and the Fatiana and Tahrana Sials on the Ravi and the Kharals on the other, were of daily occurrence. In the Bar, east of Roranwali, and also to the north, there are some masonry dome-roofed buildings, evidently of considerable antiquity, that mark the place where Rind Beloches fell in battle with the Bharwanas. According to local tradition, these memorials date from the time when the Bharwanas first came across the Chenáb. The Sándal Bár was then occupied by the Rind Beloches, who supported themselves by camel-breeding. The advent of the Bharwanas was followed by quarrels about grazing rights. Hostilities broke out, but the Bharwanas were the stronger, and drove the Beloches out of the Bar. There are some few Beloches even now in the Bar, but they are dependents of the Bharwanas. The two principal settlements of the Bharwanas are at Mukhiáná, Satiána and Sultánpur north of Jhang, and at Káim Bharwana, and the adjoining villages to the south. The headmen are Mamand and Inayat, both well-known characters, to the north, and Núr Muhammad and Muhammad to the south. The Bharwanas are bad agriculturists, and prefer a pastoral life to following the plough and sitting behind the well bullocks. They are inclined to be extravagant like most other Sials, and a few of them are considerably in debt. Jalla was a Bharwana of note during the time of Sawan Mal, and a personal friend of the Divan's. The

Bharwanas practised infanticide to a large extent in old days. The custom is said to date from the tragic adventures of Sáhiba and Mirzá. The Bharwánás took their wives from the daughters of the Siprás, who curiously are found associated with the Bharwánás in almost all their villages. In some cases they are full proprietors, in other only taraddadkars, and sometimes merely tenants-at-will.

The Kamlánás are an important Siál clan in the Shorkot tahsíl. Their head-quarters are at Jalálpur Kamláná. Kamál, 12th in descent from Bharmí, had three sons, from whom are descended the Sargánás, the Perowanás and the Kamlánás. The Kamlanas at first were residents in the country now occupied by the villages of Majhi Sultan and Chayanwala, and the intervening tract. They were driven out by the Bharwanas and retreated southwards to Jalalpur, where they are still located. A Kamlana graveyard is still to be seen at Majhi Sultan. The leading men now are Sujáwal the zaildár, and Hashmat his enemy.

The Chuchkanas are the descendants of Chuchak, who was the The Chuchkanas. Siál chief next before Mal Khán, his nephew, who founded Jhang. They are now located on either side of the Chenáb north of Jhang. The chief villages are Kuriánwála on the left, and Pipalwála on the right bank. Murád, the zaildár, lives at Thatta Mahla, and is their

leader.

The Mahni clan has now almost died out. In former days they were independent, and the head-quarters of their chief was at Khiwa. Mahni was the son of Sial. Khiwa was founded by the leader, who gave it his name, a descendant from Siál in the 12th generation. Local tradition states the Chenáb was then flowing east of Khiwa, but this is evidently wrong. The Chenab did no doubt once flow under the high bank of the Bar, about 16 miles south-east of Khiwa, but this must have been ages before. When Khiwa was founded, the country to the north was held by Marals and Chaddhars. At first the Mahnis remained on good terms with their neighbours; but as they increased in strength, they began to drive them back. Khanuwana was founded in their lands to the north of Khiwa. The first chief of Khiwa really deserving the name was Sáhib Khán. The rule of the Khíwa chief in his high and palmy days extended from Bhowana to Chautala. The independence of the Mahnis was extinguished by Walidad. From that time the clan appears to have rapidly declined in influence and numbers. There are now no Mahnis in Khiwa. The lands of the village were granted by Sawan Mal to Bakar, a leading man among the Bharwanas, whose family now holds it. Popular tradition attributes the decay of the Mahni clan to the curse of a fakír who lived at Chautála. This fakír had one fair daughter, who, being of somewhat weak intellect, wandered about the country in a state of nudity. In her wanderings she strayed into Khiwa. whence the Mahni chief drove her out with contumely, thinking no doubt that she was no better than she ought to be. This was resented by her father, who cursed the clan in the following words addressing himself to the sacred tree near his abode :-

Chautália gharmália. Ithon Khichi Mahni Kad: Kabr Allah dá mária. Na rahene vad.

Chapter III, C.

Tribes, castes and leading families.

The Kamlands.

The Mahnis.

Tribes, castes and leading families. The Miralis, The Kathias. The Mirálís are Siáls who own several villages on the Rávi, and a little property on the lower Chenáb. The clan was originally located near Roránwáli, and was driven thence by the Bharwánás. Mirálí was the sixth in descent from Bharmí.

The Káthiás, who are one of the more important tribes in the Montgomery district, hold a considerable amount of property in the Shorkot tahsil. For speculation as to the origin of this tribe, pages 33 to 37, Vol. II, of the Archaeological Survey Reports. should be consulted. They are said to have gained a footing in the Jhang district in the following way :- In the days of Inavatulla Khán, the Kamlánás, being displeased with his treatment of them, left their lands at Jalálpur and went down south and settled in the country of the Mooltan Nawab. Inayatulla sent messengers praying them to return, but they sent word back that they would only return at the Khan's personal request. The Khan accordingly set out from Jhang. Hearing of this, the Mooltan Nawab. already enraged at the recent annexation of Islamabad, laid an ambuscade for the Siál chief. Ináyatulla obtained news of the design, and calling together an army of the Káthiás, Rajbánás, and other Siáls, retreated northwards. The defeat of the Mooltan Nawab has been already noticed. The Káthiás displayed the most brilliant gallantry in the battle, and the grateful Inavatulla bestowed upon them the lands that they now hold in this district. Previously they lived on the Ravi and in the lower part of the Sándal Bár. The Bharwánás, now resident at Káim, were the former residents. The Kathias still maintain their character for being a fine, manly, handsome race. Fázil, their old leader, died some years ago, and the tribe is not doing so well as it did in his time. He managed to extinguish all internal fends, or, at all events, to prevent their swelling to any injurious extent. Since his death the leadership has devolved upon his brother Ibrahim, a man of little ability or force of will.

Other Rajpúta.

Besides the Siáls the only true Rájpút tribes in the district are the Chaddhars, the Bhattis, and the Kharals. In three villages only do the Kharals hold property, all in the Chiniot tahsil, and they acquired their land chiefly in the dowry of their wives.

The Chaddhars.

The Chaddhars, with their sub-families of Jappás, Rajokes, Sajankes, Kangars, &c., are settled in the country between Thatta Wárá Muhammad Sháh, and Sáhmal beyond Sajanke on the left bank of the Chenáb in the lower portion of the Chiniot tahsíl. Their origin is obscure. They claim to be descended from Rája Tus, Súraj Bansí. They left their home in Rájpútána during the time of Muhammad Ghori, and proceeded first to Baháwalpur. They were converted to Muhammadanism by Sher Sháh of Uch. From Baháwalpur they came to Jhang, and settled in the lands beyond the country of the Máhni chief of Khíwa. The head family is that of Tahlí Mangíní, represented by Fatah Khán, a zaildár. The Chaddhars of Tájá Berwálá are an old but decayed family. The Jappás are represented by a zaildár Patháná of Bhowáná, and the Kangars by Ghaus of Kurk. The Chaddhars

are good agriculturists, and less given to cattle theft than their Chapter III, C.

neighbours, the Harals and Siáls.

The Bhattis hold a considerable tract of country, called Bhattiora in local phrase, between the Shah Jiwana villages on the west and the Lali country on the east. With the exception of three villages, the tract is in the Chiniot tahsil north of the Chenáb. The principal villages are Ghoriwála, Kot Sultán, and Barrána. The origin of this tribe is discussed at pp. 19-22 of the Archæological Survey of India, Vol. II. The tribal tradition is that they emigrated from Bhatner in Rajputana. Their first settlement in this district was at Jandmáli, on the right bank of the Jhelam, not many miles from the Shahpur boundary. They migrated thence to the country which they now hold, over which the Sayad chief Latif Shah then ruled. The Bhattis are a fine ace of men, industrious agriculturists, hardly at all in debt, good horse-breeders, and very fond of sport. They do very little cattlelifting, but are much addicted to carrying off each other's wives. Sardár of Kot Sultán and Chaghatta of Barrána are the Bhatti zaildars and among the most influential men of the tribe. The tribe owns only one village on the river; all the rest are in the Utár.

There are a considerable number of Beloches in the district, but with one or two exceptions all their villages lie to the west of the Chenab. Above Kot Khan, the old limit of the Sial country, the Beloch villages are numerous on both sides the Jhelam, but below on the left bank there is not a single Beloch village properly so called. They are said to have settled in the district before the Siáls. Bábar in his memoirs mentions that there was a colony of Beloches in the countries of Bhera and Khushab. This was in 1519 A.D., and it must have taken the Beloches some time to spread east as far as Bhera. The tribal tradition is that the Beloches first came into this part of the Punjab in the reign of Shah Husain, the Langa ruler of Mooltan. This was early in the 15th century, and after the arrival of the Siáls. But, on the other hand, there is undoubted evidence that the Sándal Bár cast and south of Jhang was held by Rind Beloches before the Bharwana Sials, and the Beloches were only driven out after severe fighting. The Beloch head-quarters were at Mirpur near the Ravi. Again, west of the lower Chenab, the country along the banks of the river was certainly occupied by Beloches before the Rajbana Siáls pushed their way down to Ahmadpur. In fact the Beloches seem to have been in force and to have strennously resisted the Sial advance. Possibly, however, the date generally accepted of the arrival of the Siáls may be wrong, or it may have taken the Sials longer to spread over the country than is generally supposed; but at all events it seems to be satisfactorily established that the Beloches were holding the southern portion of the Sandal Bar and the country west of the Chenáb before the Siáls. The Beloches in this district never attained any importance. They have furnished no chief. Among them are to be found representatives of almost every clan and tribe. They possess no distinctive moral or physical features distinguish-

Tribes, castes and leading families.

The Bhattis.

The Beloches.

Chapter III, C. Tribes, castes and leading families.

ing them from other tribes; they are good agriculturists, though not very industrious. They are not addicted much to cattle thert. Among their leading men are Muhammad Khán Gádi, Sultán Khán of Márí, Ghulám Haidar of Kot Shákir, Sher Khán of Bulla. Of the Beloches of Jhang, 5,223 returned themselves as Rind, 1,849 as Jatoi, 774 as Hot, and 696 as Lashári by tribe in the Census of 1881.

The Gilotars.

The Gilotars are located between the Nissowánás and the Chenáb in the northern portion of Chiniot adjoining the Sháhpur district. They have no trustworthy traditions as to their origin. Their location in this part of the district is of comparatively recent origin. Several of their villages were grants from Sáwan Mal. They are a curious mixture of good and bad qualities, first rate agriculturists, and irreclaimable cattle-lifters. It is in their villages only that sugar-cane and maize are largely grown. Ismáil Gilotar of Gandlánwáli and Murád of Burj Mal are their leaders.

Kukaras.

The Kukárás or Nekokárás claim to be a branch of the Háshmi Kuraishís, but there is some doubt as to the fact. Shekh Nasíruddín came to Baháwalpur 450 years ago, and founded a village there called Shekh Wáhan. His family became followers of the Sayad of Uch in the same country. The family increased and multiplied, and the members began to emigrate northwards to Jhang, Gujránwála and other districts. There are Kukárás in all three tahsíls in this district, and all claim to be descended from the same ancestor.

The Nissowanas,

The Nissowánás inhabit the northern corner of the Chiniot tahsíl between the Lálís, Gilotars, and the Sháhpur boundary. They claim to be a branch of the Khokhars. In the Sháhpur Settlement Report they are described as "notorious for their thieving propensities and generally lawless character." They still retain these qualities in a softened degree. They are a prosperous thriving clan, rich in flocks and herds, with scarcely any debts. Rája of Kándíwál, Bákar of Babrána, Mehra of Lole, are the leading men.

The Lilia.

West of the Nissowána country along the edge of the Bár, as far as the Bhatti villages, come the Lálís who have a fabulous origin in the plains of Khurásán. Their headmen are Rája, Muhammada and Gholám, all zaildárs. Lálían is their largest village. The Lálís are not a very fine or spirited race of men, and differ both from the Bhattís and Nissowánás in this respect. They are mostly in debt, though there are one or two notable exceptions. They are not very first class farmers, and prefer grazing their cattle round a strip of báráni cultivation in the Kirána Bár to anything else.

The Harals.

The Harals are another tribe holding villages in the Chiniot tahsil only. From Murádwála to Sáíke, both on the left bank of the Chenáb, their villages are thickly studded along the bank of the river. They are said to have settled here during the rule of the Mughal Emperors, but it is probable that their coming was at an earlier date. Tradition makes them a branch of the Ahírs. They are the worst thieves in the district, except perhaps

the Gilotars, and bad cultivators. They own great numbers of Chapter III, C. birned cattle and sheep and goats, and pasture them in the Kirana and Sámial Bár alike. Sujáwal and Vasáwa, zaildárs, Sukha of Murádwála and Bálá of Sáike, are the leading men of the tribe.

Tribes, castes and leading families.

The Marala.

The Marals at the present time do not own a single village, vet in past times they must have been an important tribe, for we constantly hear of them in the local lore. They claim to be Rajputs. Chuháns of the Súraj Bansi race, and to have settled at Thatta Wara beyond Khiwa in the Chiniot tahsil during the reign of Akbar. The Shah Jiwana legend makes them the proprietors of the lands where Shah Jiwana now stands. Probably they occupied the tract between the Khiwa Sials and the Chaddhars on the left bank, and also some lands on the right bank of the Chenab. A few families still live in Maralwala, but are hereditary tenants only. There are a fine bold-looking set of men, have rather a had reputation for cattle-lifting, and are not very desirable tenants. The cause of their decay is not well known.

The history of the Sayads of Uch and Rajos has already been given. It remains to notice the other Sayads, viz., the Shah Jiwanana and the Shekh Sulemana and other branches of the Bukhárí family; the Mashadí, the Gílání, and Bákrí families. The Sháh Jiwanana are the descendants of Sháh Jiwana, whose shrine is at the village of the same name. Many of the villages round are owned by this family, but Latif Shah and Hassan Shah of Kariwala do not belong to it, though they are members of the Bukhárí branch. The Shekh Sulemána Sayads reside at Thatti Bálá Rája, west of Chiniot, at Chiniot itself, and several villages east of the town. Their followers are exceedingly numerous, and their income from offerings very large. They are careless landlords, addicted to intoxicating drinks and drugs, and not very estimable characters. The other Sayads hold so few villages as to need no mention.

The Akerás are Jats holding a small tract of country on both sides the Jhelam, just above Kot Khán, the limit of the old Siál rule. Their ancestor Khizr is said to have acquired the land by grant from Walidad Khan, in whose service he was for some time employed. They are thrifty and industrious zamindars, and breed a very good wiry little horse, something like the Beloch in shape. The headmen are with one exception well off. Sabbar and Hashmat are the two principal men of the tribe.

The Dabs are Jats, and own the large village of Dab Kalan, with a few others adjoining in Shorkot. They are good agriculturists. Bahádar, the zaildár, is their leader.

The Jútas are also Jats in spite of their brand-new pedigree table, that makes them out to be the descendants of one Juta, a Manás Rájpút, and narrates that they were originally settled in Kashmir territory near Jammu, and migrated to Jhang in the days of Walidad and Inavatulla. They hold two large villages and shares in several others. As agriculturists, they are industrious, but retain a penchant for cattle-lifting. Umrá of Alayár Jútá is their head.

Miscellaneous Sayada.

Tribes, castes and leading families.

> Miscellaneous Jats.

The Jhandirs hold a few villages in the extreme south of Shorkot on the right bank of the Chenáb. Their name is said to be derived from jhanda, a standard, as their ancestor had been standard-bearer to the prophet or some of his descendants. This would give them a western origin, but the story is somewhat mythological. Though not openly professing to be religious directors, there is a certain odour of sanctity about the tribe. Most of the members can read and write. The droning monotone of Korán-reading is always heard in their villages, and the elder members affect a certain clerical tone in their dress and appearance. A favourite aphorism "Dárhi Shekhán di, Kam Shailánán da" does not apply. The tribe is particularly free from ill deeds of every description.

The Kuraishis.

In the Shorkot tahsîl the place occupied by Sayads in Jhang and Chiniot is taken by Kuraishis. The more important Kuraishif families of Haveli Bahádar Sháh and Pír Abdul Rahmán are no recognised as genuine by the true Háshmi Kuraishis, the descendants of the celebrated Muhammadan saint Makhdúm Báhá-ud-día Zakríá. For an account of the family, pp. 490—494, "Punjab Chiefs," should be consulted. The Háshmi Kuraishis are represented in this district at Hassú Balel in Shorkot, and at Dosa and Sháh Shakúr in Jhang. Their character does not differ from that of other holy tribes. Makhdúm Jalál of Hassú Balel is a man of large property and influence, and a zaildár.

Other tribes.

Among other tribes holding land in proprietary right in the district are Mangans, Siprás, Laks, Asís, Mathrumás, and many others, but all too insignificant to merit separate notice.

The trading classes.

The trading classes are recruited almost entirely from Aroras, Khatris and Khojahs. Only a few Brahmins are engaged in business. The Arorás are the most numerous, and are divided into an infinity of clans. They are the chief money-lenders and capitalists of the district, and also the chief creditors of the agriculturists and mortgagees of their lands. Many hold land in proprietorship. The Aroras have the reputation of being a most industrious, energetic, and laborious tribe. A local proverb embodies the idea :- " Badha lak Arorián, munah koh Lahor." "When an Arora has girded up his loins, he makes the distance to Lahore only three-quarters of a kos." According to the proverb, a Kirár is not so merciless in his dealings with the zamindars as a Khojah:- "Kirár dandáli Khojah phahora," meaning that a Kirár like a toothed drag-rake leaves something behind, but a Khojah like a muck-scraper leaves nothing, is a favourite simile. They are invariably termed Kirár, which is also used to denominate the whole Hindú population. Kirár is not a complimentary appellation. Meeting a Gondal tenant-at-will once near Jhang, Mr. Steedman mentioned that his tribesmen in Gujrát were great thieves. "Ah, yes," he replied, evidently taking what was said as very complimentary, "but here I don't do anything of the sort ; I have not got as much spirit as a Kirár." The term is often used by Khatris and Brahmins towards their co-religionists, the Arorás, but hardly ever by an Arorá of them. Except in the large villages and the towns, there are but few Khatris in the district. The principal clans are Katiáls, Kapúrs, Khannás,

Mehrautrás, Saihgals, Maggús, Mahtás, Dhawans, and Talwars. All are engaged in business, except the Khannás, who own the village of Kot Maldeo, and prefer Government service to any other employment. There are proportionately more Khatris at Chiniot than elsewhere. At Chiniot, too, is a large colony of Khojahs, many The trading classes. of whom are traders on a large scale, with branches and correspondents at Calcutta and Bombay. They are converts from Hinduism, as is clearly indicated by the fact that many of their family divisions bear the same name as those of the Aroras and Khatris. The date of their conversion is put at 400 Hijra, and their first settlements were at Thatta Wara and Dawar, both villages in the Chiniot tabsil. They migrated to Chiniot about 120 years ago in Sambat 1816, which is said to have been at the time held by the Bhangi Sikhs. There they appear to have thriven, and to have been entrusted with posts of importance. When Ranjit Singh took Chiniot, Mián Sultán, a Khojah, was over the citadel, and though the Bhangi forces had been defeated outside the town and the Bhangi leader taken prisoner, he held out stoutly and refused to desert his charge or open the fort except at the order of his master. Ranjit Singh, the story goes, was so pleased with his stubborn fidelity, that he made him a grant of Kálowál and Changránwála, formerly the property of Rihans, the greater portion of which is held by Khojahs to this day. There are no Khojahs in Jhang, but many have settled in Maghiana, and are among the wealthiest and most public-spirited of the residents. Of the Aroras, 18,004 returned themselves as Utrádhi, 2,185 as Dakhana, and 23,541 as Dáhra in the Census of 1881. The chief divisions of the Khatris according to the same Census are shown below:-

SUB-DIVISIONS OF KRATRIS

Name.	Number.	Name.	Number.
Punjabi Bahri Panjahi Charzati	6,654 1,664 740 2,833	Kapar Khanne	250 1,182 469 1,614

Nore.—Many of these are shown twice over; thus 240 of the Mahrautra are also shown as Charaiti, and nearly all the Kapur as Báhri or Charaiti.

It is difficult to define the quality of each tribe as agri- Agricultural characculturists, the variations are so great. In Chiniot the Jat villages along the river bank are excellently farmed. Towards the Bar the enltivation is most inferior. In Jhang the Siáls on the Jhelam are often careful and industrious cultivators. On the left bank of the Chenáb they care little for agriculture, and keep large herds of cattle. Some Haral villages are well cultivated, others are deserted if after favourable rain there is good grass in the Bar. On the whole the Jats are the best cultivators in the district, but even their cultivation taken all round is nothing very wonderful. Naturally they are inclined more to a pastoral life and cattle-lifting than to driving a plough. A Jat who farms his own land seldom farms it badly, and is a better cultivator than the Jat tenantat-will. Some of the Khokhar villages near Kot Isa Shah will compare with any in the district. The Sials are not good culti-

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Tribes, castes and leading families.

ter of each tribe.

Tribes, castes and leading families.

> Agricultural character of each tribe.

vators. The better families have hitherto considered it dishonourable to touch a plough, but this feeling is now confined to families in affluent circumstances. Poor Sials have to cultivate, just as any other zamindár, to earn their daily bread. In old days, no doubt, the livelihood of the Sials who dwelt along the Chenab depended more on their cattle than on agriculture; and their wealth in herds more on their audacity as cattle-lifters than their skill as cattle-breeders. Now-a-days this source of income is fur less profitable. Cattle theft is still rife, but the chances of detection, where it is carried on in a wholesale manner, are too many to allow it to be adopted as a safe and lucrative calling. In old days a band of Chenáb thieves would swim a whole herd of buffaloes from the Chiniot tahsil to Shorkot, and there dispose of them. Theft now, except in the Bar, does not go ordinarily beyond a buffalo or two, or a pair of bullocks. With the decline of cattlelifting as a livelihood, agriculture has come more into favour. The large extension of cultivation, especially in sailab lands has diminished the number of cattle in many parts of the district, notably on the Jhelam, and rendered a recourse to agriculture for a living more a matter of necessity than of choice. Cattle grazing as a means of livelihood can only be profitably carried on in villages containing a large quantity of pasture land, either in river (belas) or in the Utar. On the Jhelam almost all available land has been cultivated. On the Chenáb the villages usually contain a large quantity of waste more or less suitable for grazing. Large herds of cattle are kept, and the income therefrom is probably greater than from the land. In such villages cultivation is inferior. The proprietors do not hesitate to neglect their fields for the sake of their cattle. The difference between the farming of the Sials on the Jhelam and those on the Chenab is very great. Sayads are bad managers, and they hardly ever touch a plough. They are a thriftless extravagant class, about the worst bargains Government has. Hindús are first class cultivators, most industrious and careful, but they cultivate but little land. Beloches are a little superior to the Sials. Chaddhars and Bhattis are prosperous farmers, and are both good managers and careful cultivators. The Khojahs and the other miscellaneous Muhammadans do not cultivate much themselves, but they look after their property very carefully. and their land is, as a rule, exceedingly well cultivated. Kamins are about as bad cultivators as a landlord can get.

Tribal restrictions In h upon intermarriage, wrote:

In his Census Report for 1881, the Deputy Commissioner wrote:-

"Tribal restrictions in marriage are jealous!y observed by the people. Among the Muhammadans the Sayads freely take the daughters of others in marriage, but give their own daughters only to men of their own caste. A Sayad would hold it a dishonour to marry his daughter to a Mughal or Pathán, though not actually a sin; for strict Muhammadan law declares that 'all Muhammadans are brothers.' Hindú caste restrictions seem to have been adopted by Muhammadans with regard to marriage. The Kuraishis, claiming to be the direct descendants of Muhammad, follow in this district the customs of the Sayads in this respect. Rájpúts prefer giving their daughters to Rájpúts, and seldom give them to Jats, though they take daughters in marriage with no restriction

whatever. The Hindús are chiefly composed of Brahmans, Khatris, Arorás and Bhátiás. The Brahmans do not give their daughters in marriage to the other sects but marry among themselves. Khatris are primarily of two kinds, the Bukris and the Banjahis. The Bahris again are sub-divided into Adhaighar, Charghar, Baraghar (literally 21 families, 4 families, and 12 families). Adháighar may marry the daughter of Charghar and the latter of Baraghar, but Adhas or Char would not give daughters to Bara. The above three sub-divisions may intermarry among themselves, but if an Adhaighar should marry a daughter of Baraghar, he is degraded to Charghar. If he gives a daughter to Charghar or Baraghar he descends to the caste into which he has married his daughter. Bárághar may take the daughter of Banjakis without losing their own caste. The Banjakis intermarry among themselves and give their daughters to Bahris, but have no right to take daughters from Hahris. The Aroras are chiefly composed of Utradhis and Dahras. The former intermarry among themselves and take daughters from Dáhrás, but never give them. The Dáhrás marry in their own tribe. The Bhatias have the same sub-division as the Khatris, with this difference, that the former are considered of secondary importance to the latter, and indeed to the Aroras. The Bhatias intermarry among themselves."

Chapter III, D.

Village communities and tenures.

Tribal restrictions upon intermarriage.

## SECTION D.-VILLAGE COMMUNITIES AND TENURES.

Table No. XV shows the number of villages held in the various forms of tenure, as returned in quinquennial Table No. XXXIII of the Administration Report for 1878-79. But the accuracy of the figures is more than doubtful. It is in many cases simply impossible to class a village satisfactorily under any one of the ordinarily recognised tenures; the primary division of rights between the main sub-divisions of the village following one form, while the interior distribution among the several proprietors of each of these sub-divisions follows another form, which itself often varies from one sub-division to another. In Jhang especially the form of village tenure is peculiar, as will be shown in the following pages. The statement below shows the village tenures as classified by Mr. Steedman at the recent Settlement:—

Zamindári Communal zamindári Pattidári Bhayáchára Imperfect Bhayáchára and pattidári Government property	Chimiot.  1 16 1 111 123 13	S 24 189 125 12	8horkot. 2 8  112 54 15	District. 11 48 1 412 302 40
Total	265	358	191	814

The prevailing tenure of the district is a kind of imperfect Bhayáchára, known as Bhayáchára cháhwàr. In the occupied lands, wells and sailab, possession is the measure of right. The unattached waste is generally village common; held, it may be, on khewat shares, where the joint right of each Khewatdár is measured by

Village tenures.

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Proprietary tenures.

the share of the village assessment paid by him, or individual right is represented by the fraction of the total area of the village held; or on ancestral shares by the descendants of the original founder or founders of the village to the exclusion of the other proprietors.

Table No. XV shows the number of proprietors or shareholders and the gross area held in property under each of the main forms of tenure, and also gives details for large estates and for Government grants and similar tenures. The figures are taken from the quinquennial table prepared for the Administration Report of 1878-79. The accuracy of the figures is, however, exceedingly doubtful; indeed, land tenures assume so many and such complex forms in the Punjab that it is impossible to classify them successfully under a few general headings. This is especially the case in Jhang and the neighbouring districts, where the constitution of what most nearly corresponds with the village communities of the Eastern Punjab, and the general form of rights in land, are exceedingly peculiar, unusual incidents attaching even to the ordinary form of mortgage. The peculiarities are owing partly to the scattered and precarious nature of the cultivation. and its entire dependence upon water other than rainfall; but still more, perhaps, to the nature of the revenue system that obtained under the government that preceded our own. It is therefore impossible to describe existing rights and tenures without first discussing the revenue policy to which they so largely owe their existence.

Proprietary right under the Sials and Sikhs.

Proprietary right, as the term is understood now-a-days, can hardly be said to have existed either under the Sials or under the Sikhs; as has been very truly remarked in the Settlement Report of a neighbouring district:- "It must always be remembered that " under native rule no such thing as absolute proprietary right was "recognised. The missing class was not the hereditary tenant, but "the proprietor." It is difficult, perhaps impossible, to define with any accuracy to what extent rights of property in land did exist, but they were certainly not extinct. The ruling power was not an all powerful landlord, nor were all the subjects, except those enjoying special privileges, merely tenants-at-will. That some rights of transfer and mortgage were possessed and exercised during the reigns of the latter Siál Kháns is abundantly proved. Many undoubtedly genuine deeds were produced in land cases during the recent Settlement. The history of the district and of the tribes that inhabit it, plainly shows that since the time of Walidad Khán there have been no great changes in the location of the tribes. They still hold the same villages that they then held. The lands of Kot Khan are still the property of the descendants of Walidad's successful lieutenant, Sharif Khan Aliana. The Rajbanas are still the proprietors of the villages conquered by their ancestors from the Beloches. Even the Nauls, though subjected by the Siáls, possess most of the lands, lying on either side of Jhang, that they held before the advent of their subduers. At the same time the property of the subject was strictly confined to the land in his possession; that is to say, to the land cultivated by the subject, with a reasonable amount of immediately adjoining culturable

Beyond this the individual had no proprietary rights whatever. Neither under the Sials nor under the Sikhs were there village estates with demarcated boundaries as there are now. These are our creations, exotics transplanted from the plains of the North-Western Provinces. Knowing the main facts of the history of the Siál tribe, it is not difficult to picture how fluid must have been the state of property when they first settled in the country, and how it gradually hardened during the later reigns of the Kháns and under the Sikhs. The Siáls for some time after their arrival were shepherds and herdsmen, and the extent of their agriculture, judging from the state of the district at annexation, did not probably exceed what the nomad tribes of the Bar practise at the present time. They did not even cultivate the easily-tilled lands subject to annual floods from the river. Mr. Monckton speaks about the dense jhau jangal on the banks of the rivers in his time. The word Mara is still the prefix in the names of several villages on the Chenáb, signifying a dense and dangerous jangal. Until Walidad's time the Sial Khans were merely tax-gatherers under the Imperial rule, and we know but little about the condition of their subjects. Hitherto the Siáls had been multiplying and spreading over the land, and the different clans settling down permanently in the various parts of the country they now occupy. These settlements are the nuclei of our present villages. The inhabitants cultivated more or less land near the hamlet and on their neighbouring wells. Adjacent villages or settlements seldom interfered with one another. There were no boundary disputes, because there were no boundaries. The intermediate waste was the property of the State. The population in those days must have been very scanty, and the non-existence of boundaries did not prove inconvenient, as the waste lands did not belong to the villagers. A certain proportion of the produce was taken by the Government of the day, and so long as this was paid and the lands held by the individual were not badly cultivated, the cultivator was left in peace. So long as a good revenue was yielded, the Government asked no questions; but if the subject was found to be in possession of land that he did not cultivate, or endeavouring to cultivate more land than his means would allow of, the Khan had no compunction in granting the uncultivated land to any applicant who applied for it, or in making over the excess of the land cultivated to any other person who had the requisite capital for its proper cultivation. The object of the ruler was an increase of revenue, and if occupancy or proprietary rights, as we understand the terms, stood in the way of its attainment, it was so much the worse for them. If this was the case under the later Siáls who might be expected to have had some compassion for their subjects, it was only too probable that under the Sikhs the disregard of property in land should be intensified, and that the rulers, Hindús by caste, should have employed every device to wring as large a revenue as possible out of a subject Muhammadan race.

The extortionate tyranny of the Sikhs, and also of the later Siáls, gave rise to a new species of right—that of Hàth-

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Hathrakhaldare.

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Háthrakháidárs.

rakhái or taalukádári as it is also called. There is no difference between the two rights, and in every case the origin of the tenure is the same. The original proprietor is always in cultivating possession of the land. The broken-hearted cultivator of the land, who was also the proprietor, finding the demands and exactions on account of revenue absolutely unbearable, made over the proprietary share of the produce, and with it the responsibility for the revenue, to some influential man whom the Government treated with consideration, who assented to the arrangement, thinking that he would probably be able to make something out of the contract, for contract it was at the outset and nothing more. The cultivating proprietor said to the contractor, "I cannot pay the revenue any longer. Do you take the proprie-"tary share of the produce, allowing me some fee in recognition of "my rights, and pay the revenue, yours being the profit and loss." The contractor who thus engaged to pay the Government revenue in consideration of the proprietary share of the produce, minus the proprietor's fee, is called Háthrakháídár, Háthrakhnewála, and the person who makes over the produce and withdraws from the responsibility for the Government revenue, Háthrakhvánewála. Háth rakhná, to place the hand on, is equivalent to "to protect," and the causal form means to get the hand placed, to obtain protection. Originally there were no conditions as to the termination of the contract, but it was undoubtedly understood to be terminable at the will of either party, and if we find that this power was seldom if ever exercised, the fact will be intelligible enough when the character of the Siál and Sikh revenue administration is recollected. As a rule, the original proprietor would not be anxious to regain his "rights, symbols more of misery than of benefit," and the Háhrakháidár, perhaps paying nothing, or only at the most favourable rates to the Khálsa exchequer, would be in no hurry to renounce an easy and lucrative source of income, But had the Háthrakháídár lost his influence with the Governor and been squeezed for revenue as an ordinary agriculturist, he would have thrown up his contract, and the original proprietor would not have thought of raising any objection. Conversely, the right of resumption would belong to the original proprietor. In Chiniot and Shorkot the amount of land held by these middlemen is very small. They are most numerous in Jhang, and the land they hold is generally on the banks of the Jhelam. The Nath Sahib of Jhang, a Hindu fakir, Charan Dás Sarráf, Brahmins, Gusáins, and others, who, as religious devotees, were held in much consideration by the Sikhs, are the large Hathrakhaidars. At the first Regular Settlement the general opinion of the Settlement Officer was that the Hathrakhaldar was to use Mr. Vans Agnew's words:- "A " mustajir on the behalf of the proprietor for the Government revenue "taking a share of the produce." He was considered to have no power to alienate his status, for the proprietor might not have confidence in the third party to whom the Háthrakháidár wished to transfer his privilege. Mir Izzat Ali's opinion, dated 23rd August. 1855, to which Mr. Monckton generally agreed, is still extant. He considered the Háthrakháídár to be a simple mustájir, having no

power of transfer, and that the contract was terminable at the will of either party; but unfortunately he never could bring himself to interfere with the status quo ante in the cases affecting the tenure that he had to deal with. He noted that cases had occurred where the Hathrakhaldar had been ousted by the original proprietor either of his own motion or through the action of a Panchanit, and also where dispossession had taken place in accordance with a judicial order. But as far as has been ascertained, not a single order of any Court has been discovered terminating a Hathrakhal. In all cases the settlement was made with the Hathrakhaldar without any condition whatever as to the nature of his tenure. The consequence is that the right of Hothrakhab, the right to take the proprietor's share of the produce, minus a fee, varying in amount, in recognition of the rights of the original proprietor, has crystallized into a permanent transferable and hereditary right. The Hathrakhaldars being men of power have been steadily encroaching on the rights of the original proprietor ever since the old Settlement, and have acquired by prescription certain privileges in regard to trees and bhusa to which they originally had no right whatever. Hitherto the Hathrakhaidar has not claimed any right to the land, and right he has none. All that he can claim is his share of the produce. He cannot claim to share in the land by partition, and he has nothing whatever to do with arranging for the cultivation. As a rule, the Minar, Jakh. Rusul arreahi and Ganesh fees belong to the original proprietor. There are some doubts as to Bhara and Mohassil fees. Between the Hathrakhaidar and the Mustajir or Mushakhsadar of the Dera Ismáil Khán district there is an important distinction. Mushakhsadar was a farmer of the revenue appointed by Government generally over a whole village or ilaka. The Hathrakhaldar is the nominee of the individual, the entrustee of his privilege, to take the proprietary share of the produce and pay the revenue. The Mushakhsadar takes the mahsal, the Government share of the produce, and there is no contract between him and the zamindár. The share taken by the Hathrakhaidar is the result of an agreement between him and the original proprietor. Viewed in the light of our present revenue administration, the contract appears to be a very one-sided transaction, but at the time it was made, the consideration was material and valuable, viz., protection from the extortionate demands of the Sikh farmer. Now the contract exists in virtue of prescription, while the reasons for its existence have passed away. If the right course would have been to oust these entrustees of the right to pay the revenue, the Regular Settlement was the time and opportunity for such a measure. The tenure was then comparatively in its infancy, but now more than 20 years have been added to its age. One reason why the Hathrakhaidars maintained their position was the doubt and distrust with which our first Settlement operations were regarded by an ignorant people. In fixing their boundaries even, their object was not to include as much but as little land as possible within the village. Instances of this are numerous.

Chapter III, D.

Village communities and tenures.

Hathrakhatdara.

Village communities and tenures.

Taraddadkárs,

The taraddadkari tenure also dates from the time of the Siáls, though it was under Sáwan Mal's fiscal administration that it was most fostered. This tenure is closely allied to the adhlapi and chakdari tenures of the southern districts of the Mooltan and Deráját divisions. The conditions and circumstances under which the tarraddadkari tenure arises and has arisen are exceedingly diverse, and that the rights and privileges of the Taraddadkar are of great variation. The highest form of the tenure is where the Taraddadkar is a full proprietor; the lowest where he is nothing more than a tenant who, so long as he cultivates, cannot be ousted, but whose rights are neither transferable nor hereditary. The indigenous relations subsisting between proprietors and tenants in this district have favoured the growth of this tenure, no less than Sawan Mal's efforts to extend cultivation. In Jhang it is the proprietor who runs after the tenant and beseeches him to cultivate his well. The proprietor often found, and even now often finds it worth while to make over a well in working order to a tenant, on the terms that he should pay half the proprietary share of the produce to the proprietor, who remained responsible for half the revenue, and himself retain the other half and pay half the revenue, it being understood that so long as the tenant continued to cultivate or arranged for cultivation he could not be ousted from the land so made over. Any person holding land belonging to another on these terms is called a Taraddadkar. He has taken the land or the well on taruddad. His tenure is taraddadi or taraddadkari. Where a well in working order was made over, if the making over took place many years ago, the Taraddadkar's right will probably be hereditary but not transferable. His son will succeed him, but he cannot sell or mortgage his rights, as the agreement is a personal one. Where, however, the proprietor of the land made it over to a Taraddadkar, who constructed a well in it at his own expense, the Taraddadkar, in the absence of any express agreement, is a full half proprietor. So long as the well lands are undivided, the Taraddadkar proprietor is responsible for the cultivation of the land, and either loses his rights or becomes liable to be cast in damages at the suit of the original proprietor of the land, if he fails to cultivate or cultivates in a manner contrary to good husbandry. But he has the power to partition the well estate; and once partition is effected, he becomes absolute proprietor of half the water and of the land that has fallen to his share. The right to claim partition is the test of full proprietary right. If the Taraddadkar cannot claim partition, he is not a full proprietor, whatever his other privileges. All Taradddkars have the power of arranging for the cultivation. It does not matter whether the Taraddadkar cultivates himself or by a tenant. So long as the land is cultivated, the original proprietor cannot interfere. The above remarks apply chiefly to old taraddadi tenures. Of late new tenures of this description have been chiefly created by deed, and it is only where the deed is silent that evidence of local custom is admissible. The original proprietor has, however, to be very careful how he treats his Taraddadkars. In one case the deed creating the tenure declared that the Taraddadkar had

no power to mortgage. He wanted to mortgage, but the proprietor refused to allow him to do so. The Taraddadkar then threw up the well, and the proprietor found himself saddled with a well out of work but bearing an assessment, and with but little hope of obtaining a tenant. Instances of the taraddadi tenure on sailàb lands are exceedingly rare, even if they occur at all. The rights of hereditary tenants on sailàb lands are analogous to those of Taraddadkars, but an occupancy tenant hardly ever pays half the revenue. As a rule; he pays at the same produce rates as the tenant-at-will. His occupancy rights were acquired by his breaking up the land. He probably also took the entire crop for the first one or two years rent free.

Of the true Taalukdàri tenure in this district a few instances only are found. The terms Hàthrakhàì and Taalukdàri have become somewhat confused, as under the former tenure the original proprietor is called Taalukdàr, and his proprietary fee taken from the Hàthrakhàìdàr, hak-taalukdàri. Rights similar to those of superior proprietary right are also styled Taalukdàri in Jhang, c. g., where cultivators during the rule of Sáwan Mal became so far independent that they were created proprietors at the first Settlement, subject to a small cash màlikàna payment to the original lords of the soil.

The fiscal administration of Sawan Mal left indelible marks on the proprietary system of the district. The theory that the land belonged to the State was carried by him to far farther lengths than it had ever been carried before. Under the Sial rule the rights of the dominant tribe had been more or less respected, but under the Diván they saw men who and whose ancestors had as tenants tilled their lands from time immemorial, and, as inferiors, had given them their daughters in marriage, elevated to the rank of full proprietors. Under Sawan Mal any person who broke up land in any portion of the district, or who set to work a well that had been deserted, became the proprietor of that land or well. In practice the Divan held that no man had any right to any land that he could not cultivate, and grants of waste land were given to anybody who could bring it under cultivation. Not only did this take place, but many persons who had formerly been tenants-at-will found themselves invested with the doubtful privilege of paying direct to the State. The proprietors dropped out because there was no room for them. The State took everything it could from the cultivator, and the idea of a middleman intercepting part of the collection was not for a moment entertained. Grants of waste sailab land could be obtained by anybody who could pay the requisite nazrana. The result can easily be imagined. The Siál settlements and villages still remained Siál, but there was a strong infiltration of proprietors of every class. Nothing was sacred to Sawan Mal. Chuhras and kamlus were in his eyes just as good proprietors, probably better than Siáls and Beloches. There were then no boundaries. The Sials retained what they could cultivate. The waste was occupied by Sawan Mal's colonists. Such a system was of course fatal to all proprietary rights over tracts, such as the superior proprietary rights

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Village communities and tenures.

Taraddadkars.

Tantakdara.

Proprietary right under Sawan Mal.

Village communities and tenures.

Proprietary right under Sawan Mal.

The creation of villages at the Regular Settlement.

Ismáil Khán district. When the representative of the Siál Kháns was dependent upon the charity of Sáwan Mal for his daily bread, it is not difficult to understand why no superior proprietary rights survived. Probably such rights, too, were not very common, though the Ahmadpur and Garh Máhárája Siáls and the Nawáb of Jhang have sometimes claimed that they did exist. The few instances of superior proprietary right that do exist, e. q., those of the Rajoá, Thatti Bálá Rája and Alipur Sayads over Bukhári, Tárú and Buddhí Thatti, are creations of the Regular Settlement. The land belonged to the superior proprietors, but the inferior proprietors had been so long in possession by taking produce and direct payment of revenue to the Sikhs, that they were deemed to be entitled to the proprietorship, subject to the payment of a proprietary fee, usually a percentage on the jama.

Shortly after annexation, the time between being taken up by two Summary Settlements, the Regular Settlement commenced, and it became necessary to fix village boundaries and to create private proprietary rights in land where they had never before been recognised even if, as is very doubtful, they had ever existed. The following quotation from Mr. Monckton's report describes how this was effected, and what the villages were when the Regular Settlement began:—

"The revenue arrangements of the native governments in the Mooltan province, never having recognised the village system, but dealing separately with each well or cluster of wells, there were naturally no well defined estates, and the manzahs in Mr. Cock's and the Summary Settlements were merely parcels of land paying revenue under one denomination, but with no fixed principles for their union. Generally there would be one principal village by which the name of the mahal would be distinguished, with subordinate hamlets and outlying wells often at a great distance, and situated within the boundaries of another estate. In pargands Chiniot and Jhang the mauzahs were tolerably regular, and in making the demarcation of boundaries the outlying wells were treated as chaks, if their owners desired to continue attached to the parent village. In paryands Kadirpur and Uch the holdings appeared to have no tie in common. Many mahals were composed entirely of portions of lands (wells i) scattered among other estates and having no village site or any head whatever. These last were all abolished in the revised hadbast, and the estates were formed with reference to village sites only; no outlying chaks were left except in jagir villages. The people readily acquiesced in the change, and any other course would have led to indefinite complications in the preparation of the record of holdings and responsibilities, and in the determination of rights in waste land, especially the sailaba; while no collocation of holdings according to similarity of caste among a people wholly unaccustomed to act in common, offered so fair a chance of cementing a union as that of common interest involved in a compact topographical distribution. "

Briefly, within the mahal or village, the boundaries of which had been thus arbitrarily fixed, each man in possession of land of which he took the produce and paid the revenue was recorded as proprietor. The waste lands were almost invariably recorded as village common land held on khewat shares. But little attention appears to have been paid to the determination of rights in the waste. In fact there probably were no rights. In some villages the cultivation was measured up alone, and alone numbered on the field map. If the people had understood our revenue system, and if there had been any inquiry into the proprietorship of the disused wells in the waste, there would probably have been Regular Settlement, a considerable diminution of the area recorded as village common. But the people were doubtless apathetic to a degree, and any energy evinced was rather directed against the acquisition of waste land, so that unless it had been reserved as Government property there was perhaps nothing to be done except to record the waste as village common. The waste lands included in the village boundaries were thus made a present to the knewatdars. Mr. Steedman writes:-

" It would probably have been best to have retained to Government some such authority in respect to the sinking of new wells as was exercised in the Thal until the last Settlement of Dera Ismáil Khán; or, if Government was to retire completely, the old families of the district, the founders of the village, might have been given a preference over the motley crew whose proprietary rights only dated from the time of the Divan. Some of the Sials managed to regain property of which they had been despoiled by the Sikh Kardars, but it was not much. Regrets, however, are now vain, and if mistakes were made, the lapse of 25 years has accustomed and familiarised the people to them, and the thing that is, is accepted as the thing that is right.

Mr. Steedman thus describes the riverain custom of the district :-

"The boundaries of opposite villages in the intermediate river bed have been demarcated at this Settlement, and the river measured and mapped. The main principles on which the boundaries were fixed were these. The boundaries of the adjacent villages were first mapped according to the Revenue Survey of 1855 and the Regular Settlement field maps. Then on the same map all land that had since accreted and been occupied and held by either village as proprietor was plotted. Land once so held was allotted to the occupying village. If any land still remained on which it was clear that nobody had been in possession, it was generally divided between the two villages, though if one village had since last Settlement acquired a large slice of the river bed, while the other had lost by diluvion, the major portion of the hitherto unappropriated land might be awarded to the latter. Although this has been done, I do not suppose that when land actually accretes in places where land has never within memory existed, the present demarcation between villages will be accepted without question. Within the village boundary there is one rule for the whole of the district. As far as I know there are no exceptions. If land held now or formerly in proprietary right decretes or has decreted, and subsequently land accretes on the site of such land, it will be the property of the proprietors whose land formerly occupied that site. As to newly accreted land, in regard to which no old proprietary right can be proved, I venture no opinion. Whenever such a case comes up, it must be decided on its merits, if there is no provision for it in the Wajib-ul-art."

Besides the ordinary form of mortgage, there is a kind of running mortgage called Lekha Mukhi, which is separately described

Chapter III, D.

Village communities and tenures.

The creation of villages at the

Riverain custom. Alluvion and Diluvion,

Mortgages.

Village communities and tenures.

Mortgages.

Chapter III, D. below. The ordinary mortgage is of the usual usufructuary kind. The mortgagee pays the revenue and takes the proprietary share of the produce. Redemption can only take place on the first day of the months of Hur or Magh. The mortgagor is responsible for the cost of repairs to a well, the construction of a new one, if the old one falls in or becomes useless, and the mortgagee has in such cases full powers to construct or repair a well. The cost of such repairs, &c., is added to the original mortgagemoney, and must be paid before redemption can be effected. The liability of the mortgagor for such charges may appear at first somewhat unjust; but when it is remembered that in this district generally land can only be cultivated by the aid of artificial irrigation, and that a useless well means no cultivation, it is not a matter for surprise that the mortgagee should insist upon conditions that assure to him the use of the well in good order as well as that of the land. The mortgagee cannot throw up his mortgage if the well falls out of work, and so long as the mortgage remains, it is he who will have to pay the assessed revenue. It is only fair, too, that a mortgagee, if the deed allows him to construct a new well, should recover its cost at redemption as the value of an unexhausted improvement. The mortgagor is also liable for expenses attendant on the breaking up of new land by the mortgagee for purposes of cultivation. The mortgagor almost invariably receives some fees in kind in recognition of his proprietary title; 2 topás per kharvár and 1 topá per threshing floor are as common fees as any. The mortgagee can cut trees for bona fide repairs to the well, the well buildings, and agricultural implements needed for the cultivation of the well lands. As a rule, the original proprietor is left in cultivating possession. Sometimes the mortgage deed expressly reserves to him the right of cultivation. There are instances of separate sub-mortgages of the right of arranging for the cultivation. In old deeds there is usually no stipulation as to the right to cultivate. In those of modern date the right is either distinctly reserved to the mortgagor or mortgagee, and if to the former, a stipulation is added that if the mortgagor fail to arrange for the cultivation of the land, the right to do so shall accrue to the mortgagee. In a very few instances the mortgagor remains responsible for the payment of the revenue. In recent mortgages it is often conditioned that redemption shall not take place until after a fixed period. In some mortgages the mortgagor is left in possession and pays the revenue, the mortgagee only charging the land with an annual payment in kind of a fixed amount.

Lekha Mukhi.

Lekha Mukhi is a running mortgage. The proprietary share of the produce is made over to the creditor, who pays the revenue and keeps an account of receipts and disbursements. Lekha Mukhi conveyances arise in two ways. One is where the proprietor has obtained a loan from the Lekha Mukhidar, and makes over a well or a share in a well to his management. The other is where an estate is made over to the Lekha Mukhidar, not so much as creditor as agent. The accounts are kept in the same manner in either case. The Lekha Mukhidar collects the crops

and credits the proprietor with their value. He debits him with Chapter III, D. the Government revenue, the costs of repairs, maintenance, &c., in fact with all working expenses and charges usually defrayed by the proprietor. His fee consists of the muhassili two topás per kharvar, and he also charges interest if the proprietor gets into his debt. The interest is never less than 12 per cent. per annum, and is often much higher. Lekha Mukhi in the hands of an astute Hindú is usually fatal to the zamíndár. The Lekha Mukhidár embezzles and peculates as far as he dares.

In many villages of this district the proprietors of date palms are not the proprietors of the soil in which they stand. The origin of this tenure is obscure. In the Deraját the date palms were often the property of the State as a separate source of sayer revenue. In this district the date palms were separately leased, but were apparently never considered the property of the State. Perhaps the present proprietors, where they are not the lords of the soil, were originally the persons who contracted for the revenue from year to year, and were invested with the rights of property at the Regular Settlement. If old deeds are to be trusted, private proprietorship in these palms is of considerable age. Whatever its origin, the fact remains that the proprietors of the palms are often not the proprietors of the land, and where the proprietorship in young trees is in issue, the determination of the rights of the two proprietors is no easy matter.

The figures in the margin show the number of headmen in the

Village headmon. Taball. 407 55 50 17 Thang Chiniot 6.40 237 Total 02 1,113 several tabsils of the district. The village headmen succeed to their office by hereditary right subject to the approval of the Deputy Commissioner, each village, or in large villages each main division of the village, having one or more who represent their clients in their dealings with the Government, are responsible for the collection of the revenue, and are bound to assist

in the prevention and detection of crime. Chief headmen are not appointed in this district. The zaildár is elected by the headmen of the zail or circle, the boundaries of which are, as far as possible, so fixed as to correspond with the tribal distribution of the people. The zaildars are remunerated by a deduction of one per cent. upon the land revenue of their circles or villages; while the headmen collect a cess of five per cent. in addition to the revenue for which they are responsible. In the three tahsils of the district the zaildárs also enjoy small ináms or cash allowances annually which were made to them at Settlement. The head-quarters of the zails, together with the prevailing tribes in each, are shown on the next two pages.

Village communities and tenures.

Lekha Mukhi,

Proprietary rights in date palms.

Village officers.

Village communities and tenures.

Village officers.

					The state of the s
	Tahsu.	Zail.	No. of villages.	Annual land revenue.	Prevailing caste or tribe.
	Taked Juang.	Kot Isa Shah  Chhatta, Bakhaha  Laú  Sháh Jiwana  Kot Khán  Saliána  Masson  Pir Kot Sadhána  Dhidoána  Chund Bharwána  Pipalwála  Ratta Matta  Kot Sultán  Kot Sultán  Mukhiána  Pakka Naulán  Basti Gházi Sháh  Dhuin Muhammad  Haveli Bahádar Sháh  Wasú Asthána	266 155 111 244 144 131 160 100 288 131 177 122 5 9 8 133 5 15 7 9	Ra. 10,481 10,132 4,938 4,881 5,610 5,772 5,846 5,459 8,329 6,464 5,970 4,906 1,499 3,945 4,743 4,705 8,780 4,709 5,170 2,309	Baloches, Bhons, Patháns, Khokhars, Dhúdhis, Awans, Sayads, Jaisaks, Bhuttás, Siprás, Kureshis and Láng. Baloches (Gádís), Vinpáls, Dinárs and Kureshis. Haidahans, Gopáls, Kaulars, Khokhars, Dhúdhis, Baloches, Kádís. Sayads, Akerás, Jhabánas, Hindu Arorás. Akerás, Mals, Báhars, Siáls, Sayads and Sajokás. Siáls, Turks, Arorás, Kureshis and Chelas. Siáls, Arorás, Khatrís, Baloches, Kalásans, Sayads, Khokhars, Saliánas, Kureshis and Bráhmans. Siáls, Kureshis, Sayads, Arorás, Baloches and Shabánas. Baloches, Jat Jhabánas, Arorás, Siáls, Saliánas, Díráje, Kureshis, Sadhánas, Mirjánas, Maghiánas, Khichiánas, and Khokhars. Siáls, Sayads, Daultánas, Kureshis, Bálís and Bharwánas. Siáls, Chuchkánas, Kauriánas, Lakhnánas, and Sayads. Siáls, Chuchkánas, Kauriánas, Lakhnánas, and Sayads. Shatrís, Bhochrás, Arorás, Sayads, Jogerás, Bharwánas and Sayads. Siáls, Sayads, Bráhmans, Arorás, Khatrís, Maghiánas, Khojás and Hasnánas. Siáls, Arorás, Nekokárás, Maghiánas, Khojás and Baloches. Khojís, Arorás, Siáls, Dirájs, Baloches, Bharwánas and Sayads. Sargánas, Gagránas, Sayads, Chaddhars, Kureshis and Arorás, Baloches, Sayads, Arorás, Baloches, Sargánas, Gagránas, Sayads, Chaddhars, Kureshis and Arorás, Baloches, Sayads, Arorás, Baloches, Sayads, Arorás, Baloches, Sayads, Chaddhars, Kureshis and Arorás, Sayads, Chaddhars, Kureshis and Arorás, Baloches, Sayads, Chaddhars, Kureshis and Arorás,
		Machbiwal	26	8,300	Khokhara. Baloches, Siáls, Arorás, Bhuránas, Sayada and Kureshis.
-		Kot Shákir Belá Shahr Márí Sháh Sakhira	8 6 17	3,635	Baloches, Siáls, Khokhars and Arcrás. Akerás and Bharokas. Baloches, Sayads and Guráhs.
	Tahsfi Chiniot.	Kot Sultan Nurpur Pipal Barana Thatti Balaraja Lalian	10 19 8 7	8,330 3,735 3,774 3,352	Bhattis. Sangras, Chaddhars, Sayads, Bhattis and Khokhars. Sámbhals and Bhattis. Sayads, Khatris, Sámbhals and Kharals. Sayads and Lális.
	H	Do	7	6,345	Kalas, Lalis, Chaddhars, Khokhars and Harals.

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Tahsfl.	Zail.	No. of villages.	Annual land revenue.	Prevailing caste or tribe.
	1915		Rs.	
ded.	Lalián Kharkin Kot Amír Sháh	11 15 22	5,658 4,723	Lálís, Khatrís, Khojás and Khokhars. Harals, Sayads and Khatrís. Sayads, Nekokáras, Nissoánas, Siprás and Lolás.
man and a second	Kandiwal	16	4,348	
Tahsil Chiniot - concluded.	Langar Makhdúm Gadhlánwáli	14		Gilotars, Gondals, Khatris, Rihans, Khojás, Nissoanas and Bhattis. Gilotars, Sargānas, Sayads, Harals and
.0	State of the last			Nekokáras.
-=	Tabli Mangini	7	7,010	Chaddhars, Sayads, Sipris and Khatris.
0	Bhoánáh		14,072	Jappas, Chaddhars, Rajokas and Sipras.
- C	Kurk Muhammadi	13	9,300	Kharals, Khatris, Sambhals, Sajjanke, Kangars, Khokhars and Nitharkes.
Tab	Rajoá	30	7,308	Sayads, Khatris, Harals, Khokhars and Salaras.
	Chiniot	8	5,327	Khojás, Khatris, Bráhmans, Kázis,
	The state of the s		To Jane	Nekokaras and Sayads.
1	Morádwála	22		Harals, Sipras and Khatris.
	Kot Khuda Yar	20		Khokhars, Harals, Sayads and Aroras.
- 4	Shekh Harso	9	3,057	Gújars, Harals, Sayads, Asís and Nekokáras.
				Neguratas,
	Kaim Bharwanah	7	2.509	Siáls and Bharwánahs.
	Sadik Nihang	8	6,525	Kathias, Aroras, Sials and Baloches.
	Alah Yar Juta	12	7,125	Jútás, Kureshis, Nekokaras and Baloches.
	Badh Rajbána	-8	8,910	Siáls, Rajbánas, Chaddhars, Kurcshis and
				Sayada.
	Shorkot	6		Khatris, Pathans, Jats and Siale.
-	Kakkikohna	11	0,990	Kāthiās, Siāls, Kureshis and Sayads, Janjiānas, Surbānas and Baloches.
- 00	Kharánwála	12		Kamlanas, Kureshis and Traggare.
걸	Jalálpar Dabkalán	14		Dabs, Sayads, Siáls, Kathias and Hirajs.
Taheff Shorkot.	Kund Sargana	10	3,829	Sarganas, Chaddhars, Sayads and Neko-
=			100	káras.
是	Ahmadpur	9		Siáls, Sayads, Baloches and Aroris.
E	Ranjit Kot	1 100		Kureshis, Sials and Chaddhars.
	Sultan Bahu	8	3,928	Awans, Bhidwals, Sayads, Kurcshis and
	Clark Michigania	10	6,507	Siáls. Siáls and Baloches.
	Garh Máhárája Hassú Balel	18		Kureshis, Baloches, Sials and Sayada,
	Uch	12		Sayads, Baloches, Aroras and Sials.
	Haweli Bahadur Shah	6		Kureshis, Sials and Sayads.

Table No. XVI shows the number of tenancy holdings and the gross area held under each of the main forms of tenancy as they stood in 1878-79, while Table No. XXI gives the current rent-rates of various kinds of land as returned in 1881-82. But the accuracy of both sets of figures is probably doubtful; indeed, it is impossible to state general rent-rates which shall even approximately represent the letting value of land throughout a whole district. The prevailing rent-rates, as ascertained at the Settlement of 1880, are shown at page 86. The figures on the next page show the cultivated area of the district distributed between proprietors, middlemen, and tenants by holdings and area. Similar figures arranged by castes have already been given in Section C of this Chapter (page 60).

Chapter III, D.

Village communities and tenures.

Village officers.

Tenants and rent.

Chapter III, D.

Village communities and tenures,

Tenants and rent.

Tabail,	Class of cultivators,	Actuals.	Percen- tage.	Number of cultiva- tors.
Chiniot.	Number of holdings Total acres cultivated Cultivated by proprietors Cultivated by taractdadkirs Cultivated by hereditary tenants Cultivated by non-hereditary tenants	15,717 99,126 42,560 2,556 2,341 51,669	100· 43· 3· 2· 52·	14,054 6,056 333 483 7,182
Jhang.	Number of holdings Total acres cultivated Cultivated by proprietors Cultivated by taraddadkirs Cultivated by hereditary tenants Cultivated by non-hereditary tenants	23,042 136,091 6,273 3,383 2,321 67,655	100- 46- 2- 2- 50-	19,836 11,014 390 440 7,992
Shorkot	Number of holdings Total acres cultivated Cultivated by proprietors Cultivated by turaddadkers Cultivated by hereditary tenants Cultivated by non-hereditary tenants	11,132 97,092 43,023 1,253 2,418 50,388	100· 44· 1· 3· 52·	11,293 5,461 145 335 5,352
District.	Number of holdings Total acres cultivated Cultivated by proprietors Cultivated by taraddadkars Cultivated by hereditary tenants Cultivated by non-hereditary tenants	49,891 332,299 148,316 7,191 7,080 169,712	100- 45- 2- 2- 51-	45,183 22,531 868 1,258 20,526

More than half the cultivated area of the district is in the hands of the tenants-at-will, but it must be remembered that a considerable portion of the area thus shown is cultivated by co-sharers as tenants of the other proprietors. In some portions of the district, especially where property is held on ancestral shares, a couple of sharers, or even one, cultivate a well in which their share is very small, their shares in other wells being held by other sharers. The produce of the well so occupied is taken, and the revenue paid by the occupant alone. The ancestral shares are not acted on. The produce of the other wells jointly held is similarly taken, and the revenue paid by the occupant-sharers. Instances also exist where the revenue is paid according to shares, but each sharer takes the produce of the joint property he occupies without reference to the proprietary shares.

Occupancy tenants.

There is hardly anything to note about occupancy tenants beyond what has been written above. The area occupied by this class is very small, and except in the villages of the Kálowál pargana transferred to this district in 1861, they pay at much the same rates as tenants-at-will. The right is not much valued, and during the recent Settlement many occupancy tenants voluntarily abandoned their rights. In the Kálowál iláka the occupancy tenants generally pay the assessment, plus a málikána. Of this portion of the district Mr. Ousely writes:—

"The heavy assessment of the Sikh times had quite trampled out proprietary rights, and artizans and village servants and proprietors all paid the Government revenue by an equal rate levied, generally speaking, on the number of ploughs supplied by each man. In these parts of the district cultivators of long standing were recorded as owners of the land in their occupancy, and they paid their revenue at the village revenue rates. They had of course no proprietary title in any of the village lands except what was in their actual possession as cultivators."

The proprietors of the district cannot be congratulated on their tenants-at-will. Those of Chiniot are best off; though even there it is no easy matter to obtain tenants for Utar and Bar wells. It is never difficult to obtain tenants for the easily cultivated sailab lands and the wells of the Hithar. There is, in fact, a competition for these lands in some portions of the district. But in the Bar, and especially in the Kachhi circles, the tenants are a poor unsettled class, with an indifferent reputation for industry. In the Kachhi this has been the normal condition of tenants for many years. Mr. Monckton wrote of them:—

"The non-hereditary cultivators are in no way attached to the soil; on the contrary, they are continually on the move, either from the well cultivation to the sailāb, or from bad to fertile soils. Even proprietors often quit their estates to join their brotherhoods in the Khangarh district to take to the easier cultivation near canals; or else they move off to the Kacheha of the Leiah district in seasons when the Indus may have fertilised by its deposit a tract larger than ordinary. Even the owners show but little attachment to their properties."

This is exactly what is still going on. Before the excellent rains of 1878, the Kachhi had been almost deserted by tenants-at-will, and the tract had seriously deteriorated. Many wells had fallen out of work, and many villages had been given large reductions in assessment. Since, the Kachhi has recovered in the most wonderful way, is still improving, and the tenants are coming back. But let another series of bad years come, and they will fly off in scores to the canals of Muzaffargarh, the sailàba of the Indus, and the labour market of Mooltan. The tenant in the Bár tract is less migratory, but in seasons of scarcity he too deserts for the sailàb of the Rávi and the Mooltan canals. Almost all these tenants are in receipt of takàvi advances, and the position of a landlord of assessed land cultivated by such restless persons is not to be envied.

In the upland villages a landlord, when he entertains a new tenant, almost always gives him an advance of money, or bullocks and seed to enable him to commence cultivating. These advances are known as takàvi. The money advances recorded at the recent Settlement are given below, with the number of holdings and other information:—

	Nuta	ber of	Takawi	Land held by tenants.					
Tabeil	Holdings.	Tenants.	advince.	Cultiva-	Fallow.	Unculti-	Total.		
Chiniot	361 2,311 1,210	416 1,998 1,052	15,\$70 60,007 \$5,529	2,785 13,509 12,449	490 8,834 4,891	869 11,467 15,441	4,134 28,510 32,781		
District	3,882	3,966	1,11,866	29,745	9,205	27,777	65,795		

Chapter III, D.

Village communities and tenures.

Tenants at-will,

Taktvi advances.

Village communities and tenures,

Takári advances.

The amount of takávi here shown does not include any advances except of money. The landlord's theory with regard to these advances is that the tenant cannot leave his service until they are repaid. As a matter of fact, tenants very often do not pay, and leave on the slightest provocation. A bad season, the loss of bullocks, better terms offered by another landlord, are each a sufficient inducement to them to leave their old masters. If a tenant does leave, the proprietor has no remedy. It is not worth while suing him for the amount due, that would be simply sending good money after bad debts. What with the capital expended on wells, the money advanced in takavi, and the inferior quality of the tenantry, the cultivation of their lands is, for landlords of upland villages in this district, a most expensive undertaking. Of the area cultivated by tenants-at-will nearly one-half is held by Jats, one-sixth by Kamins, one-eighth by Sials, and one-sixteenth by miscellaneous Muhammadans. The large proportion held by Kamins speaks volumes for the character of such cultivation.

Rent rates.

It remains to notice the shares upon which the produce of the land is divided between the proprietor and the tenant. The statement below will indicate how remarkably high the rent rate in this district is. The figures are taken from the Assessment Reports of the recent Settlement:—

Tahsil.	Total area held on kind rents.	Area held by tenants paying half-produce with percentage on total area.	Average rent rate of the Tabsil.
Chiniot	61,827	33,056 33	145
Jhang	96,404	78,516	147
Shorket	57,791	53,831	-49
District ~	- 216,022	163,493	*45

More detailed figures are given in the table on the opposite page.

Probably there is not a district in the province where the rate of batái is so high. On sailáb lands the rate is invariably one-half. On the better class of sailab lands in the Jhang tahsil it is even customary to exact a small fee from the incoming tenant for permission to cultivate, and it is a well-known fact that throughout the district there is never any difficulty in procuring tenants for fairly good sailáb lands. On sailáb lands half batái does really mean half the produce after defraying the necessary kamiana, &c., charges. On well lands half-produce rents are nominal. With few exceptions one-third is the share of the produce taken by the landlord of china, kangni, mandua, melons and tobacco. It is not customary for the three first-named crops to be grown together on the same well, but one or other is almost invariably cultivated. Melons, except near towns, belong entirely to the cultivator. Practically the tenant can cut as much green wheat and jowar to feed the well bullocks as is necessary. There is really no limit. Similarly the whole of the turnip crop is his. It is only where the crop or roots are sold that the proprietor takes his share; otherwise all that he takes is a marla or two of

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8				Other rates.	8	43	100	2,044	01	102	000	2,189
19			ufter	++	60	448	101	199	58	633	167	1,185
18	IST.		ictors, c	Cove.	284	3,390	137	1,371	115	877	536	6,570
17	O TO EX	ld.	y propr	-in	3,561	741 21,591	1,276	12,852		408	4,879	34,851
16	room:	In kind	Share of grain taken by proprietors, after deduction of Kamin's fees.	ela "	100		1117	867	44	623	202	2,231
16	THE REST		f grain	044	164	1,418	308	2,035	:	:	532	3,450
14	MENT		Share of	P <sub>pe</sub>	184	1,208	28	525	100	1,412	335	3,145
13	MODE OF PAYMENT OF RENT POUND TO EXIST.		32	-	5,075	33,056	14,627	76,516	6,265	53,831	25,967	1,63,403
12	Mon	rod	Baaj sin	Rate of Kami	1 ,01		) Jack	-	) :: 1	11.1	1,00	-
=		ush.	o rate	At a Revenu plus Malika	2552	1,523	25	155		11	308	1,689
10		In cash.	rates	At Revenue	126	199	9	20	1	1	132	690
6	botav		fatot staanst	Percentage of ye held by	9.99	50%	1	.99	:	55.7	1.	:
8 9 10 11 12 13 14 15 16 17 1	.bni	y or S	daying	Total of tenant	0,458	61,627	16,852	96,404	6,644	167,791	32,954	2,16,022
	.da.	so uj ž	gaiveg s	tanant le fateT	818	2,184	60	180	*	11	442	2,384
9	Tenants with-	occupancy.	-	Rents in kind.	9,058	58,565	15,816	88,704	6,998	53,572	31,102	2,00,841
5	Tenani	occur		Cash rents.	127	1,029	0	00	-1		136	1,063
	mile chie	paney,		Rents in kind.	400	3,262	1,036	7,700	416	4,219	1,852	15,181
3 4	Tenants	Cash routs.  Cash routs.  Rents in kind.			251	1,155	15	155	7	11	300	1,321 15,
					:	1	-	;	112	1	-	**
69					Holdings	Arca	Holdings	Area	Holdings	Area	Holdings	Area
-	-		.dan	Name of parga	100	Chin	30	The	1.3	Spo		Dia Trip

Village communities and tenures.

Rent rates.

Village communities and tenures. Rent rates.

Chapter III, D. green wheat and a bundle or two of turnips. Both china and turnips are consequently very favourite crops with the tenant-atwill, and he half lives on turnips during the cold weather. On inferior wells, where the water is very distant or the soil not good, the tenant contrives under various pretences to extort other allowances. He insists upon one or two marlis being allowed him for his spiritual adviser (p(r), and the same amount for his daughter's children, who are supposed to have certain claims upon him. On some wells the tenant gets one-eighth of the proprietor's half share, called athog. The word athog is now-a-days often used to mean allowances of this nature, though more or less than one-eighth. On others, instead of the athog, a kanál of the standing crop is allowed. The tenant takes care that this kanál is the very best on the well. Jowar and barley are specially liable to the pilfering attacks of the tenants. By the time jowar ripens the tenant's stock of grain is exhausted, and he commences to pluck the ears and scorch and eat the grain as soon as it is ready. The stalks are chewed as a kind of inferior sugarcane. When the jowar ripens and the grain is divided on the threshing floor, the tenant, by threats and entreaties, generally manages to cajole or swindle the proprietor out of his rightful share. The same course takes place in reference to barley. The tenant begins to pluck the ears long before he thinks of dividing the produce. The women walk through the fields and pinch off the ripest ears. The earliest and latest cotton-pickings belong to the tenant. If he reaps the wheat, he is paid the regular reaper's wage, contrary to the general custom in the Province. There are only two portions of the district where the prevailing rate is other than one-half the produce. In the Halkíwáh circle in Chiniot and in the Utár Vichanh circle of Jhang, the prevailing rate is one-third. In the Halkiwah the comparative lowness of the rent-rate is due to the cultivation of the more profitable crops of sugarcane and Indian corn, that require more labour on the cultivator's part. In the Utar Vichanh it is due to the inferior quality of the soil and the difficulty with which cultivators are induced to take up tenancies on the wells. Takávi is just as common in the Utár Vichanh as elsewhere,

Landlord's right to bhúsa.

There is a considerable amount of ferment in the Jhang tahsil where Kirár landlords are more common than elsewhere, regarding the question of dividing bhusa. Of course in the case of a tenantat-will the matter is one of agreement pure and simple. If the landlord wants a share of the bhusa and the tenant refuses to give it, the landlord can eject, and if the converse is the case, the tenant can give notice. The importance of the question lies in its relation to taalukdár proprietors and hereditary tenants. On sailáb and well lands, before the recent Settlement commenced, no fixed share of wheat bhusa was ever taken by any landlord throughout the district. If any exceptions existed (as they do to most rules), they were to be found in the Jhang tahsil, and there were probably special circumstances ( e.g., very good soil and a grasping landlord, &c. ) that explained each instance. All that the landlord took was two or three large bundles (trangars) per holding, if he wanted

These loads of bhusa were taken at various times, not necessarily at harvest. The demand was limited by the wants of the landlord. If he had enough bhitsa of his own, he probably took nothing from his tenant. On sailab lands the landlord generally took bhilea, but rarely on wells. It was left with the tenant on the Landlord's right to tacit understanding that it was to be consumed on the well. It is more to the landlord's interest that the well bullocks should be well fed and strong, and that his tenant should be kept in a good humour, than that he should have seven or eight more maunds of fodder in his bhusa stock. It is a condition of most annual leases in England that no straw is to be sold off the farm. Missa bhusa, i. e., that of mash, mung and moth, is generally divided. Many instances will be found where the landlord never has taken his share of this bhitsa; but at the same time the landlord's right to take a share has never been really disputed, at any rate so far as concerns the general practice and feeling of the district. Missa bhusa is exceptionally good fodder, and horses are very fond of it. Hence horse-breeding landlords usually took the same share of the bhusa as they did of the grain.

Home farm cultivation is termed hathradh, and a farm labourer Agricultural labourhathradhi, ràhak, or kàma. The lichhàin tenant is not a farm labourer. A lichhàin tenant is provided with a pair of bullocks by the proprietor, and takes half of the tenant's share of the produce allotted to his yoke, the other half being taken by the proprietor of the bullocks. Sometimes the lichhain finds half the seed, but more generally he gives nothing but his labour. A farm labourer is kept in clothes and shoes and tobacco. He gets a blanket in the cold weather. His ordinary clothes allowance is I loin cloth (majhla), 1 chaddar (utla), and 1 turban (pag). As to food, if the man is a bachelor, he gets his two meals a day, if married, he is allowed 4 pdi of wheat or 5 pdi of mixed grain,-china, barley, gram, and wheat per month. A farm labourer is also paid never less than 8 annas cash a month, often 12 annas or even more. He gets as much tobacco as he likes. The proprietor's barber trims his hair, and his clothes are washed by the proprietor's dhobi. These Kamas are as troublesome and grumble as much about their food as "men in the house" on an English farm. Keeping farm servants is very expensive during years of distress or high prices, and they do not at all sympathise with the proprietor's endeavours to economise by substituting china and other flour for that of wheat. But it is not customary to employ hired field-labourers, and they are very few in number, probably not more than one or one-and-a-half per cent. of the population. They are generally non-Jats who practice no craft, but get their living entirely in this way. As there is usually a considerable demand for labour, there is no fear of their starving if they will work; and so long as they are in employ they are well off. But the nature of their wages prevents their saving anything. They live better, that is, they have better food, than the poorer agriculturists who cultivate their own land, or the tenants-at-will paying bathi. They are generally unmarried, and without encumbrances. Some further particulars regarding the employment and pay of agricultural labourers will be found in

Chapter III, D.

Village communities and tenures.

bhilan

era and lichhain tenants.

Chapter III, D.
Village communities and tenures.

Chapter IV, page 120, where the division of crops is treated of. The wages of labour prevailing at different periods are shown in Table No. XXVII, but the figures refer to the labour market of towns rather than to that of villages.

Kumins' fees.

The Kamins proper, radde Kamin as they are called, are the potter, the carpenter, the blacksmith, and the barber. The mochi and the dhobi are not included, as they are not always paid out of the grain heap. The fees of the Kamins proper are usually partly fixed per well and partly proportionate to the well produce. A common mode of payment is one sheaf (pùli) + 1 bundle (qadda) + 2 topàs per kharwar. A pùll contains about 8 topàs (15 seers) of grain, and a gadda is half the size. The barber is paid less than the other three. His allowance is often docked of the gadda. The carpenter generally obtains an additional fee of from 3 to 6 topds per well on account of the sticks, (arerlan) on which each well pot is strung, that he has to furnish. The Chuhra is another important Kamin, but his fees are lumped as a winnowing fee (hak chhajii). and he is not included in the radde Kamian, Kamins proper. There are also a number of miscellaneous fees. The weighman (dharwal) gets from 2 topàs per kharwar to half a topà. Two topàs are the usual fee. The watchman's (muhassil) fee is not universal. The tenant is supposed to be responsible for watch and ward, but the proprietor often finds it profitable to have his own watchman, and if he is appointed, his pay is defrayed from the joint heap. The fee varies from 2 topàs to 4 topàs per kharwar. If 4 topàs, the fee becomes proprietary in character, for the landlord takes it and pays the muhassil what he thinks fit. Bhara or kiraya (carriage fee) is another perquisite of the landlord. It represents the cost of delivering the grain at the landlord's house. Two topds per kharicar is the average rate, but both more and less is taken. With regard to both these last fees it should be noted that they depend on the relations subsisting between the tenant and the landlord. If the soil is good and the landlord liberal (there are landlords and landlords), the tenant does not object to his showing off by taking a heavy carriage and watchman's fee, but if the landlord is hard and the well not a very good one, both fees will be absent. The tenant often refuses to cultivate if a muhassil is appointed. The landlord has to gave way, and so indirectly recognises the right of the tenant to pilfer on a bad well. The priest (mulla) in charge of the village mosque (masjid), the boatman (mallah), the well-sinker (tobah), the herdsman (chheru), are also paid small fees from the grain heap. More rarely the village bard (pirah), mirasi), the drummer (nagarchi), the baker (machhi), the proprietors agent (naukar), get fees. The religious and charitable fees are composed of the rasúl arwahi, usually I topa per kharwar taken by the Mullah, who looks after the spiritual welfare of the village. A small fee is often allowed in addition for the maintenances of the mosque. Almost invariably a payment, small in amount, is allowed for the support of the most favourite or nearest shrine. In some villages the allowances to shrines are considerable.

Religious and charitable fees.

The allowances noted above are those paid at the wheat Chapter III, D. harvest. The Kamins get very little at the kharlf. The kharlf crop on a well consists of cotton, jowar, and china. If the grain crops are harvested and give a fair outturn, the Kamins proper are given a little. There are certain nominal rates, but as a matter of fact, the kharif kamidna payments depend entirely on the outturn. If the joucar and china fail, or yield but little grain, the Kamins get no grain, but are allowed a little cotton instead. The rabl is by far the most important harvest, and it is the wheat crop that has to defray the kamiana charges.

Village communities and tenures.

Kamins' and other charges at the Lhary.

kumbina charges on

The kamidna expenses on wells in this district are exceedingly The incidence of the heavy. It must be remembered that the maintenance of the well-gear and wood-work, the repairs to all agricultural implements, the supply of well pots, thatching charges, and house repairs, are all included in the kamiuna. Besides their legitimate work, the Kamins have to make themselves useful in a multitude of ways. They plough if wanted, run errands, carry messages, cut wood and draw water. They are highly prized, and are well treated. It is a common saying among the people, that it is better for a lambardar to be congratulated on the fact that a fresh Kamin has settled in his village, than that a son has been born to him. Any Kamin settling in a new village would be given a house at once by the lambardár, or if there was not one available, a new one would be at once made, the lambardar supplying the wood and materials. Village servants they are, and occasionally have to endure rough treatment and hardships, but they are a far too valuable element in the village community for the lambardar or proprietors to oppress them in any extraordinary manner. They also get, in addition to grain fees, bundles of fodder from the wells in season. Most of them keep a cow or a small flock of sheep and goats. It is a mistake to suppose, as is often done, that they are a miserable, down-trodden, poverty-stricken set of men.\*

The last two lines of Table No. XXXIV of the Revenue Administration Report show that there are no persons holding service grants from the village held free of revenue. But even if this be the case, this is by no means the only form which these grants assume. Sometime the land is leased to the grantee at a favourable rent, or on condition of payment of revenue only; sometimes the owner cultivates and pays the revenue, making over a portion or even the whole of the produce to the grantee; while occasionally the grant consists of the rights of property in the land, which, subject to the usual incidents, such as responsibility for revenue and the like, vest in the person performing certain specified services at such time and for so long as he performs them. These grants are most commonly made to attendants at temples, mosques, shrines, so long as they perform the duties of the post, and for maintenance of monasteries, holy men,

Petty village grantees,

<sup>\*</sup> Appendix 8 to Mr. Steedman's Settlement Report shows the kamidna fees in a river and an upland village in Shorkot. They mount to 23-2 and 20-0 per cent. of the gross produce respectively.

Village communities and tenures.

Poverty or wealth of the proprietors, teachers at religious schools, and the like. The fees paid for these purposes have been noticed above, together with Kamín's dues, at pages 90 and 91.

Table No. XXXII gives statistics of sales and mortgages of land; Tables Nos XXXIII and XXXIIIA show the operations of the Registration Department; and Table No. XXXIX the extent of civil litigation. But the statistics of transfers of land are exceedingly imperfect; the prices quoted are very generally fictitious; and any figures which we possess afford but little real indication of the economical position of the landholders of the district. The subject is discussed at some length at pages 493 pt of the Famine Report of 1879, where actual figures are given for instances selected as typical. In forwarding those figures, the Settlement Officer wrote as follows:—

"I believe that from 40 to 50 per cent. of owners and 60 to 70 per cent. of tenants-at-will are in debt. There are very few occupancy tenants in this district. I am of opinion that in the case of owners their average indebtedness is about 25 per cent of their income, and in the case of tenants 50 per cent. Owner's debts are usually due to improvident expenditure on marriages and funerals, or to failures of harvest. What keeps the debt from being paid off is the ruinous rate of interest charged. An ordinary zamindar always, or almost always, lives up to his income. A harvest fails, and he has to borrow money to support homself and pay the revenue. The important harvest in this district is the rabi. If the rabi is a failure, the proprietor will not be able to pay off any, or only very little, of the debt until the following rabi. Meanwhile the debt has increased by one quarter, at 25 per cent. per annum interest. This is how the zamindar gets into debt, and hardly ever gets out of it. Another fruitful cause of debt is the expenditure attendant on a civil case. Another, the payment of fines imposed in criminal cases. The people of this district are notorious cattle thieves. Hospitality and charity ruin a few. It is instructive to consider the indebtedness of the different tribes. There is only one Sayad in the whole district who is out of debt. The Sials in the Shorkot tabsil are generally in debt; in Jhang many Sials are well-to-do, prosperous agriculturists, and the proportion of the tribs that is involved in debt is comparatively small. Hindu cultivators are seldom in debt. Jats are, as a class, not very much in debt. Most will be slightly in debt, but the amount will be small. It is a common practice here for a zamindar to mortgage his well and build another with the money. Tenants-at-will are, as a rule, only indebted to the amount of takári, or advance which they receive from the landlord. In fact, no bania would lend them anything, for they can give no security for it. The only property worth attachment is their share of the produce, and this is an uncertain and fluctuating quantity. At times persons of this class are put to great straits for their livelihood, for if the harvest is a failure, they have nothing to fall back upon. Takavi advances which they obtain from the landlord, vary in amount from Rs. 10 to Rs. 75, and the tenant is supposed not to leave until he has repaid the advance; but he often does leave without repaying. The instances of agriculturists, which I submit in tabular form, are few; but I had great difficulty in obtaining these few. The first is a good instance of a small proprietor cultivating his own land. The second is an instance of a prosperous zamindár cultivating a first class well. The third is an instance of a well-to-do tenant, and the fourth of

an impoverished tenant-at-will. It is hardly possible to show in the statement to what extent a poor cultivator supports himself on turnips, carrots, and various herbs called ság. During the hot weather the fruit of the ber tree and the pilá bush largely supplement his daily food. In some portions of the district he lives chiefly on milk. As a rule, tenants-at-will live a hand-to-mouth existence; the produce of one harvest barely enabling them to subsist until the next."

The statement below gives statistics collected at the recent Settlement regarding the extent to which transfers of land have taken place in the district:—

Chapter III, D.

Village communities and tenures.

Poverty or wealth of the proprietors.

Transfers of land: their origin, and the lesson they teach.

SALES.

-	Details.			Area					Inci	dence.	lence.				
Taball.	Period.	Truns- fers.	Culti- vated.	Unculti- vated.	Total.	Price.	Jama.	Per	acre.	Per i	Per rupee of Jama,				
I				100		Rs.	Ela.	Bs.	AP	Rs.	JA.	F.			
Chiniot.	Before 1856 Bince or	128	1,632	1,861	3,490	29,518	900	ïi	9	30	13				
Mang.	Before 1856 Bince	829 1,165	10,786 10,074	17,627 -12,803	21,313 21,177	1,04,046	11,861 2,933	8 12		8 87		9			
Shorkot.	Before 1856 Since	630	5,219	8,418	13,647	1,40,171	4,715	io	111	36	4	à			
District.	Before 1858 Since ,	829 1,925	13,786 17,235	17,527 23,082	31,213	1,04,046 4,86,997	11,861 13,040	3 12	5		127				

## MORTOAGES.

-	Details.			dren.	3				Inch			lenes.			
Tahell.	Period.	Trans-	Culti- valed.	Unculti- vated.	Total	Price.	Jama.	Per s	cre		Purro of Ja	m	10		
+						Bin.	Ra.	Ba.	A	F	Bs.	A	F		
Chindot.	Before 1856 Since n	257 386	2,347 4,060	2,705 4,494	5,052 8,644	46,758 71,761	1,806	8	13	9 10	21	0	7 3		
Jhang.	Before 1856 Since	2,482 2,885	27,529 16,892	24,913 16,443	52,442 23,525	9,63,770 4,57,259	20,848 12,616	5 15	0	00	11 20		0		
Shorket.	Before 1856 Since	630 958	4,048 7,452	5,961 8,023	10,626 15,475	92,804 2,08,720	4,008 6,522	9 13	47	1	23	0 15	83		
District.	Before 1856 Since ,,	3,580 3,931	85,921 28,084	23,509 28,960	67,820 57,644	401,098 7,87,707	99,771 22,409		15 12		13.	7 12			

On these figures Mr. Steedman makes the following instructive remarks, which describe the degree of indebtedness of the Jhang

Village communities and tenures.

Transfers of land: their origin, and the lesson they teach. landowners, and the reasons which, in Mr. Steedman's opinion, have caused that indebtedness:-

"According to the figures of the sale statement, the price land has been fetching on the average during the last twenty years is about 38 years' purchase of the rent taken by Government. The two statements convey two pieces of information: 1st, the extent to which land has changed hands, and is encumbered; 2nd, what a purchaser or mortgagee has given for the privilege of taking the proprietary share of the produce and paying one rupee of the Government demand. From these facts conclusions can be drawn as to the pressure of the Government demand. It is easy to grasp the fact that so many acres of land assessed at so much revenue have been transferred, and to infer that the owners of the land must have been compelled through want of cash to consent to the transfer. Whether the pecuniary difficulties that gave rise to the transfer were the result of the land assessment or not, is quite a different matter. If it were a generally true proposition that the indebtedness of agricultural classes is due to the pressure of the land revenue, one would expect to find the most transfers and the heaviest encumbrances in villages where the demand is highest, and the smallest number in good villages assessed lightly. But, as a matter of fact, when one descends into details, experience teaches that good villages lightly assessed are most burdened with debt. We have not to go far for the reason: zamindárs are thievish, generally quarrelsome, and always litigious. The jama is light and the land is good. The bankers are only too willing to lend money on such excellent security. Their morals are not shocked, whether the creditor spends it in paying fines imposed by a magistrate, or defraying the costs of a civil suit, or squanders it in debauchery. They know the land is fertile, and that the revenue dues chargeable to the proprietary share are light. It may be objected that it is unfair to generalise from a few instances furnished by individual villages. Let us therefore take the different circles as units. Here again it will be at once discovered that the richest circles furnish the most mortgages. Yet it may be said that the best lands are the most heavily assessed. Undoubtedly, but the surplus produce after payment of the land revenue is always much larger than in the case of poor villages. The extra few annas an acre that are imposed on good villages, as compared with poorer villages in the same circles, do not nearly represent the difference in the returns from the two classes of villages. It is so both in theory and in practice. The Government assessment being equal, as I estimate, to with share of the produce, then where the assessment is high the amount of the remaining will be greater than where it is low. I have already noted the tendency of modern assessments to let off good villages too lightly and tax bad ones too heavily. Why the demand for mortgages of the best lands should be most effective, is clear enough; but why should the proprietors of these lands be obliged to mortgage their property? How is the necessity brought about? What often does take place is this. When the owner of a good well or a fat piece of sailab deals with a baniah who is anxious to hold some land in mortgage, he finds that his credit is unlimited. It is a case of spending made easy. He can have whatever he wants whenever he wishes. All that he is troubled with is his signature or assent to the usual six monthly statement of accounts, and at harvest time he will make a few payments to the banich in grain. This goes on for 4 or 5 years, or often longer. Then the demeanour of the creditor changes. He insists upon a registered bond

for the amount due or a mortgage. The debtor temporises as long as he can, perhaps transfers his account to another shop, often takes his chance of a law suit, trusting in his luck to evade some of the items. All these devices fail, and he makes over a share in his property on a verbal lekha mukhi contract to his creditor. This is probably the very worst thing he could do. A lekha mukhidar is as hardly displaced as was the old man of the sea. The zamindar never goes into the account, and is fleeced in every possible way. Instead of growing less the debt grows larger, and a mortgage is at last gained. I have already explained the status of a mortgagee. He steps into the proprietor's place, takes the proprietary share of the produce, hak bhutdri, and pays the revenue, somesmall fee in kind only being retained by the mortgagor to mark his rights. The fact, therefore, that the lands of any village or circle are heavily mortgaged is no reason for lowering the assessment. To reduce the Government demand is to put so much more money in the mortgagee's pockets. On the contrary the existence of a large number of mortgages, the incidence of the mortgage money per cultivated acre and per rupee of jama being high, denotes a large surplus left to the mortgagees out of the proprietor's share of the produce after payment of the Government dues, and warrants a high assessment. It may be urged, where only a portion of a zamindar's land is mortgaged, that it will be the easier for him to redeem, the lighter the assessment is pitched. Mortgages are sometimes paid off, it is true, but not many, and the amount of land mortgaged is increasing so steadily that it is impossible to act upon such an argument.

"As far as this district is concerned, thereis, as far as my experience and the statement of sales go, nothing to show that the original proprietors are being rapidly expropriated. I should say that sales to banidhs pure and simple are few. The policy and class sympathics of Sawan Mal resulted in the acquisition by Hindus of large properties in virtue of purchase, mortgage, direct grant, and hathrokhai. Many of these men have now given up trading, but many also practise their original calling in addition to managing their landed property. These are the chief purchasers of land. That land is highly valued is shown by the statements, and how rapidly it is increasing in value is a matter

of daily conversation, a still surer test.

"The zamindars in Chiniot are most free from debt, and those of Indebtedness of the Jhang the most embarrassed. Shorkot holds an intermediate position, agricultural classes, In the Settlement Records 111 lakhs of mortgage and 11 lakhs of lekha mukhi are recorded. To charge the old assessment with being the author of all this indebtedness is, I cannot phrase it otherwise, sheer nonsense. Consider for a moment what the incidences per acre of cultivation and per well of the old assessments were, the increase that has been taken by the new assessments and their incidence. Remember the great rise that has taken place in the price of agricultural produce, and the infinitely greater luxury and comfort enjoyed by all agriculturists except the lowest, as compared with their condition at annexation. Our system of revenue collection is to some extent answerable for agricultural debt, but the real and true cause of all our woe was the mistaken and misplaced gift of full transferable proprietary right in land to the cultivator, and with it of a vast credit only limited by the value of that proprietary right. It is only of late that there has been an awakening to the true facts of the case, but that the cause stated is the true one, I have not the slightest doubt. The thrifty and unembarrassed zamindárs of this district can be counted up on one's

Chapter III, D.

Village com-munities and tenures.

Transfers of land: their origin, and the lesson they teach.

Are the agriculturists becoming expropriated?

its causes and aspects.

Chapter III, D.

Village communities and tenures.

Imiebtedness of the agricultural classes, its causes and aspects.

fingers. So long as a zamindár has credit, so long will he borrow, and so long as he borrows, shall we find our annual returns of land transfers slowly but surely and steadily increasing. The sole basis of his credit is his transferable property in the land. Take this away, and all the security that the money-lender has is the annual outturn of the crops. In such case we should not hear of zamindars being thousands of rupees in debt. Their credit would shrink, and their debts too. There are numbers of villages along-side the Bár, east of Kot Isa Sháh, in which there is hardly a single mortgage. Why † Because cultivation is uncertain, and the mortgagee might find the mortgaged well abandoned in a few months, and himself left saddled with the revenue. It is not good enough. Here the zamindars have no credit, and they are not in debt, except to a small amount. You do not find tenants-at-will over head-and-ears in debt. They are in debt, it is true, but the limit is the amount that the baniah considers is pretty certain to be repaid to him at the next harvest. That the conferment of proprietary right in the soil has really benefited the zamindar I sincerely doubt. To have twice as many wives as before, to eat better food, to be better clothed and housed, to ride a nag where he went formerly on foot, are outward signs of improvement and civilisation; but when we remember that all this is accompanied by debt (there is hardly a Muhammadan landowner in the district who is not in debt), and that this debt is steadily increasing, how is it possible to be satisfied with things as they are! If a man draws a large prize in a lottery and follows it up by plunging into extravagances and adopting a style of living that is far beyond his income, we do not say that he is advancing in the path of civilisation and steadily improving his condition. He is called a reckless prodigal, and it is universally predicted that he will go to the dogs in the shortest of periods. Had rights of occupancy only been given to the cultivators, and all transfers, except such as the State sanctioned, absolutely prohibited, there certainly would not have been anything like the amount of indebtedness that we now find, and I have little doubt that the Government would have been able to have largely increased the land revenue. After 30 years, we are just beginning to take about as much as the Sikhs took on a very much smaller cultivated area. Why we cannot take more is exemplified in the mortgage statement. There are mortgages in the district to the amount of 111 lakhs, and of course an enormous quantity of unsecured debt besides. The interest on the unsecured debt all goes out of the agriculturist's pocket, out of the produce of his land. I suppose there are but few villages in which the annual interest on debt does not exceed the Government demand. So far the agricultural community is impoverished and less able to pay a fair rent to Government. As our Government has made it possible for the zamindar to raise money, so has the money-lender made it difficult for him to free himself when once in debt, by charging an extortionate rate of interest. Here, as elsewere, 24 per cent. per annum is the rate charged. With this rate and compound interest a debt doubles in three years. No wonder the wretched, foolish Jat never manages to extricate himself. He is sucked dry, and then allowed to drop out of the meshes,"

## CHAPTER IV.

#### PRODUCTION AND DISTRIBU-TION.

#### SECTION A -- AGRICULTURE AND ARBORI-CULTURE.

Table No. XIV gives general figures for cultivation and irriga- Chapter IV, A. tion, and for Government waste land; while the rainfall is shown in Tables Nos. III and IIIA and B. Table No. XVII shows statistics of Government estates, Table No. XX gives the areas under the principal staples, and Table No. XXI the average yield of each. Statistics of live-stock will be found in Table No. XXII. Further statistics are given under their various headings in the subsequent paragraphs of this chapter. Land tenures, tenants, and rent, and the employment of field labour, have already been noticed in Chapter III, Section D.

With the exception of a little bardni, rainland, cultivation in How far the agriculthe northern half of the Chiniot tahsil, agriculture is in the Jhang ture of the district district confined to lands either naturally moistened by inundation district confined to lands either naturally moistened by inundation The effectof heavy or percolation from the Chenáb, Jhelam and Rávi rivers, or artificially irrigated from wells by means of the Persian wheel. No other system of lifting well water is known in this district. It must not however be supposed, because there is, so to speak, no cultivation that depends solely upon rain, that it is a matter of indifference whether the country gets rain or not. Saildb lands of good quality, if well wetted during July and August, require wonderfully little rain, but without rain the crops are never good. To crops on light and sandy sailab lands, no rain means destruction. The crop looks very well up to the latter half of February, and then the dryness of the Jhang climate soon makes itself felt. If the crop does not dry up, the ears will be small and stunted, and contain only a few shrivelled grains. It is not so much heavy rain as rain in season that is needed.\* The outturn of all crops on well and sailab lands is best in years of moderate rainfall. This is not the same as saying that the district does best in years of moderate rainfall. For the public welfare Jhang could not have too much rain. Heavy rain means heavy grass crops, and it is far more important in a district where almost every one high and low owns cattle, that there should be good grazing, than that the crop outturn should be heavy. In the Dera Ismail Khan Thal the case is much the same.

Agriculture & Arboriculture. General statistics of agriculture.

and light raine.

<sup>\*</sup> For a remarkable instance of how little rain is required to ensure a good yield, if only it comes at the proper time, and how much more important the season of the fall is than its amount, see paragraph 91 of Mr. Steedman's Settlement Report. 13

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From a grazing point of view the Thal cannot have too much rain, but the Thal well-owners will tell you that too much rain is very injurious to their wells, and diminishes the crop yield materially. To sum up, for a good crop and a heavy outturn an average rainfull judiciously arranged is best; but for the general wellbeing, the more rain the better, the months during which the kharif and rabi crops ripen and are harvested being excepted.

Cultivated and Irrigated area of the district, The cultivated area of the district, in acres, is arranged belowwith the number of wells that were at work at the recent Settlement:—

> Wells. Chihi. Sailaba, Baraui, 11,013 ... 227,299 ... 98,748 ... 3,480 Percentage ... 69 ... 30 ... 1

The statement below shows the irrigated area ascertained at the same time:-

ABSTRACT SHOWING THE BREIGHTED AND UNBREIGHTED SOILS
IN EACH THISIL.

		CULTIVATED.  Irrigated.							
Number.	Tahail.	Chahi Khalis.	Chahi Sailab.	Chabi Jhalari.	Clahi Naihri,	Jhalárí.	Naihri,	Total,	
2	Chiniot Jhang Shorket		1,100 7,243 10,639	110 498 438	605	1,397 1,444	395	73,753 100,238 56,379	
	Total	206,501	18,982	1,046	605	2,841	395	230,370	

				CULTIVATED.								
Number.	Tahsfl.		Sallab.	Birini	Total.	Total cultivated area.	Abandoned and Appear.	Total cultivated and fallow area.				
1 2 3	Jhang	816 810 810	22,367 35,517 41,038 98,922	3,006 336 173 3,515	35,853 41,211	99,126 136,091 97,590 332,807	20,844 29,235 22,155 72,234	119,970 165,326 119,745 405,041				

Norm.—This statement includes the area of revenue assignments.

In cháhi is included all areas artificially irrigated, whether by canal, jhalár, or well. Naihri, or inundation canal cultivation,

differs but little from sailab; but the means of irrigation are not Chapter IV, A. natural, and therefore it is here classed with chahi. The different methods of agriculture from wells and jhalars, on sailaba and naihrí, and on bárání lands, will now be discussed.

Table No. XIV gives details of irrigation. Further information will be found at pages 177 to 203 of Major Wace's Famine Report, compiled in 1878. At that time | per cent. of the cultivation was irrigated from canals, 681 per cent. from wells, 30 per cent. was flooded, and the remaining I per cent, was wholly dependent upon rain. The following figures show the number of wells then existing in the district, with certain statistics regarding them :-

Number	Dopt water i		Cost in rupees.		Bullocks per wheel or bucket.		Cost	Acres irrigated per wheel or bucket.	
of wells.	From	То	Masonry	Without Masonry	Num- ber of pairs.	Cost in	of gear.	Spring.	Autumn.
7,052 3,220 595	20	20 30 40	185 250 350	25	3 4 4)	102 160 200	38 40 45	15 16 15	7 7 6

Of these wells only 40 were unbricked; while all were worked by the Persian wheel. The wells in the upland circles of the Chiniot tahsil are deeper than in any other part of the district. The wells in the villages fringing the river bank are usually less than 20 feet deep; those in the villages beyond are, in the northern half of the district, from 15 to 25 feet; and those in the villages lying underneath the Bár, both in the Chaj and the Rachna Doábs, are usually 30 feet or over. As the Ravi is approached, the depth of the wells sensibly decreases. Speaking generally, the wells in the villages under the Bár may be said to diminish in depth from the boundary of the Shorkot tahsil southwards. On the west of the Jhelam the wells in villages lying between the Thal of the Sind Ságar Doáb and the riverain villages are slightly over 20 feet in depth, whether near the Thal or near the river.

In Jhang, wells are pakka where the cylinder is made of burnt bricks cemented by mud, and kachcha where the well is merely a hole in the ground, or where the hole is lined with a cylinder of wattles or stakes. A kachcha well without any lining or with a wattle lining is termed kharora. These are most common. A kachcha well lined with stakes arranged in a circle and banded together is not met with often, and is called kathial or gandial. A jhalar is the name given to a Persian wheel when set to work on the edge of a nála, stream or pond. The best jhalárs are those where the pit from which the water is drawn is a short distance, a few yards, away from the edge of the stream or pond. The pit is rectangular, with an inward slope, and the lowest portion is sometimes lined with bricks. This reservoir in which the water pots revolve is connected with the stream or pond by a narrow channel open at the top. In Maghiana some of these channels are lined with brick. Usually the the jhalar pits and connecting channels are

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Wells.

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Arboriculture.
Wells.

constructed in the roughest manner. In the case of other jhalàrs the well pots dip into the stream or pond itself. Here there is no pit, but the sides of the bank have to be faced off and strengthened, over which the well pots and vertical wheel hang. Pakka wells are divided into double wheeled and single wheeled. There is no difference in the building, except that one is larger than the other. Mortar is hardly ever used to cement the brick work of a pakka well. It is supposed to altogether spoil the water for drinking purposes, and to injure it for irrigation. A full description of the various parts of which a Persian wheel is composed will be found in paragraph 98 of Mr. Steedman's Settlement Report.

Well sinking. Masonry-wells,

The sinking of a pakka well is a business not unassociated with awe to the zamindár. First of all the services of a man wise in the finding of water must be obtained, and the site of the well determined at his direction. Next a small hole is dug in the ground, a libation of oil is poured into it, and gur is distributed. Then the well hole is excavated to the water level. The well curb, chak, made of kikar wood, is then let down by four ropes to the floor of the hole, and gur is again distributed. The well cylinder is built up on the curb to a height sufficient to take it down to the required depth. Around the top is constructed a platform with containing walls of kana and sar bands, wound round and round and kept in place by pegs. All the sand that is dredged out of the well is packed on to this platform, and its weight serves to sink the well. It is not thrown aside until the well has been sunk as far as it is to go. The upper three or four feet of the brick cylinder are also strengthened by being wound round with kana bands. This may be dispensed with if water is near, and the well only a small one. A well is sunk down to the stratum that is called the sach. In this district the true sach is a stratum of coarse sand of a reddish colour. If this stratum is not found, everything that is bad happens to the well. The water is dirty and the supply deficient. Holes form under the chak. At first the well only sinks, but finally the brick-work cracks or falls in. The sach of wells on the Chenáb is good, though there are exceptions. On the Jhelam it is inferior. The definition of sach is not easy, but it apparently means a good water-bearing stratum of pure sand through which water springs or percolates regularly and rapidly into the well. When the diver asserts that the sach has been reached, the water-supply is at once tested by borrowing seven or eight pairs of bullocks and working the well for two days as hard as it can go. If the water level in the well is thereby only a few inches lowered, the water-supply is good, The sach having been reached, the well is worked for about a week to further test the water-bearing capacity of the stratum, and if everything is satisfactory, the platform is taken off and the sand thrown down round the well. Where the sach is good, the well scarcely ever requires cleaning. All that has to be done is to pick out the well pots and fragments that tumble in from time to time; whereas with a bad or no sach the well requires constant attention. Sand and mud accumulate inside, and have to be removed, and the well has to be stopped because there is no water. When the brick

work cracks or falls in, the well is rendered serviceable by sinking inside a small wood cylinder called chak, kothi, bachchi, chaubachcha. Sometimes the crack is patched up, but this is not usual. A kachcha well is only sunk down low enough to ensure a good supply of water. They are not renewed or repaired, but have to be cleaned out. The water in a kacheha well is never clear. A well with a wattle cylinder lasts about six years, one with a stake cylinder about fifteen years.

On this point Mr. Steedman writes:-

"The quesition-'What does it cost to sink a well?' must be answered just as the question-'What is the area a well can irrigate? by-'It depends.' I have heard of wells close by the river where water is within a few feet of the surface, having to be sunk 20 and 30 feet before the desired such was found. Here you have wells where the depth of water in the wells is twice as great or more than the distance from water level to the surface of the ground. Three years ago I sunk a well in my garden in the zamindar's fashion, pouring out oil, distributing gar in the orthodox mode, and it cost me Rs. 250. The well is 20 feet to water and 71 feet under water. The sach is excellent, and there were no hitches in the work. To a zamindar the cost of constructing a well is not much. The well hole is dug out, the bricks made, burnt, and carried by the Kamins. Fuel is supplied by the village waste and his cotton fields. The bricklayers' and divers' work is the only heavy charge. All the labour of spreading the sand, pulling up the dredge, &c., is performed by the Kamins, and they get nothing but a meal a day. I do not think I am far wrong in putting the cost of a well to a zamindar at half what it would cost a non-proprietor. I estimate that a well 20 feet deep will cost Rs. 200, one 30 feet deep Rs. 300, and one 40 feet deep Rs. 450."

The people have most various modes of dividing the water of The system of disa well. So many pahrs of three hours each are allotted to each share, and after a fixed period the times of the pahrs are changed. If the well is held on three-thirds, and four consecutive palers are allotted to each third, then the yoking times change of themselves, e. g., A, B and C hold a well, and each works the well for four pakes. A's turn at the well, if from midnight to midday on Monday, will be from midday to midnight on Tuesday. Similarly, if a two pahrs turn is allowed to each proprietor of one-sixth, the time of each turn changes in regular order. If, however, the turn is of two pahrs for each quarter in the well, then the change has to be made artificially. The change when made gives the two night turns to the proprietors who before had the day turns, and they again arrange between themselves to take in alternate weeks the first or second turn. Turns are called varis. They are always calculated on pahrs of three hours each. A vari is never less than two pahrs or six hours, and never more than eight pahrs or 24 hours. A pair of bullocks works six hours at a stretch. There is no difference between the system of varis in the Hithar and Utar, on shallow and deep wells. Varis always correspond to the proprietary shares in the well, or to the proprietary shares represented by the amount of land held by the tenants. A one-third sharer in a well will not get an extra long rdri, because he possesses an extra pair of bullocks.

Chapter IV, A. Agriculture & Arboriculture. Kachcha wells.

Cost of a well,

tributing well water.

Chapter IV, A.

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Arboriculture.

What area does a

well irrigate.

The areas irrigated by wells in different parts of the district differ considerably. The area usually irrigated by a full yoked well assisted by sailab is much the same all over the district-about 30 acres. The area irrigated by a well and jhalar varies too much to allow of any good estimate being made. The time that the jhalar can be worked is uncertain. In forming an idea of what area is on the average irrigated by unassisted wells, the first thing to be done is to banish any preconceived opinions that this area varies inversely to the depth to water in the well. As a matter of fact, the areas irrigated by the deep wells of the Chiniot tabsil in the uplands between the Kirána Bár and the river have the largest areas under annual cultivation of any in the district. In the Shorkot Utár lands lying under the Bár, the depth to water is two-thirds of what it is in Chiniot, yet the areas irrigated are hardly half those of the Chiniot wells. Much more depends upon the quality of the soil, the number and power of the bullocks, the rainfall, the industry of the cultivator, and the nature of the crops grown, than on the distance that the water has to be lifted. The following is Mr. Steedman's estimate in acres of the areas irrigated by unassisted wells in the various parts of the district :-

Chimiot	uplands.		Jhang uplands.				
East of Chenab.	West of Chanab.	Between Chenah and Cha) Bar.	Along Jhelam.	Between Chemab and Sandal Bar.	Shorket uplands		
30	96	24	20	17	14		

The following statement gives the average areas attached to each well, including fallow, in acres, as ascertained at the recent Settlement:—

		Circle.						
Ì	Tabail.	Centre.	Bär.	Utar.	Kachhi.			
-	Chiniot Jhelam Jhang Chenab Shorket	26-5 50-7 16-5 13-0	26 16-8 15-4	90 94-6	15-5			

Kachcha wells are only found in the Hithár near the rivers. Their irrigating power is about one-fifth less than that of masonry wells in similar situations. They are liable to dry up. The area watered by a jhalár in a given time must be half as much again as that by a well. The water pots (they might be called lotás) are quite twice the size of those used on wells, and the wheel on which they are strung revolves quite as fast as the wheel on any ordinary well. Besides the greater quantity of water delivered, the zamíndárs say that the change of water itself is a benefit to the soil. The only disadvantage appears to be a larger wastage than that which takes place in the case of wells. Where a well is assisted by a jhalár, the lands attached will be almost always farmed well. A slovenly cultivator does not trouble himself to set up a jhalár.

Rotation of crops, System of agriculture on well lands,

On the upland unassisted wells of this district there is no system of agriculture that can properly be called rotation of crops.

The two main points to be kept in mind are-1st, that on a well Chapter IV, A. the area under spring crops is usually from 70 to 75 per cent. of the area annually cultivated, and that three-fourths of the spring crops are wheat and barley; 2nd, that owing to the intense heat and dryness of the climate during the hot months and scanty rainfall, the land put under autumn crops is chosen near to the well, in order that the loss by evaporation may be the least possible, The difference between the irrigating power of a well in the hot and cold weather is enormous. The proportion between the area under kharlf and rabi crops indicates this. Crops that require to be liberally manured are always cultivated close round the well. The area under crop varies greatly from year to year. All other things being equal (i. e., the number of tenants and well bullocks), the disturbing element is the rainfall. For the autumn harvest it is the joucar crop area that contracts or expands. The cotton sowings are made long before the summer rains, and are not affected thereby. Even if good rain fell just before the time for sowing cotton, it is doubtful whether a larger area would be sown. The cultivator knows what hard work it often is in May, June, and the first half of July to keep the cotton alive, and will rarely be tempted to sow a larger than the average area. With jowar the case is different. If there is good rain in July, joudr will be sown without irrigating the land, with the knowledge that it will germinate, and the hope that rains to come will, with the aid of a couple or so of waterings about September, bring the crop to maturity. Such jowar is additional to the area usually cropped, and has to take its chance. If the later rains fail, then this jourdr will be abandoned. The well can only irrigate the ordinary cotton, jowar and china area. Before the wheat sowings the turnips have to be sown. If there is rain in September and October, the area under wheat will be above the average. The hypothetical well has of course a total attached area larger than the area annually under crop by at least two-thirds, so that there is no practical limit to the cultivation besides the known irrigating power of the well and the scantiness and uncertainty of the rainfall. If, therefore, the rainfall in September and October is exceptional, there is nothing to prevent the cultivator from putting under wheat twice as much land as usual. As a matter of fact, in the most favourable years the area sown with wheat will never exceed the average area by more than one-third. Seed is expensive, and to see wheat drying up for want of irrigation is heart-breaking. As the wheat and joiedr areas increase in a year of favourable rainfall, so do they contract if the rainfall is scant. The cotton, china, turnips, and tobacco areas will vary but little in favourable and unfavourable years. Below is an estimate in acres of the areas annually occupied by various crops on a well in Chiniot and another in Jhang :-

		Kira.ni	F.		Rang,					1
	Cotton	Jowar	Chin	Total.	Wheat and Barley	Turnipe	Tobacco	Mother	Total	Grand total.
Chimiet	3	4	3	9	18	24	1	**	21	30
Jhang	2	14	-1	48	0)	18	1	+	1,12	. 18

Agriculture & Arboriculture.

Rotation of crops. System of agricul-ture on well lands. The area immediately round the well will be under crop every

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System of agricul-

ture on well lands.

year, and a small portion will be double-cropped. The area under china, turnips, and tobacco will be or ought to be always manured, and a large portion of the cotton area also. The manured area shown in all the statistics is much understated. The unmanured portion of the well estate is renovated by fallows. The more culturable land there is round the well, the longer the fallow and the less frequent the crop. It it quite impossible to state that the farming is by courses, for no regular system of rotation is followed. Generally speaking, it is perhaps not unsafe to say that in the year the land nearest the well is manured and double-cropped, the land beyond sometimes manured and cropped once, and the lands outside bear wheat two years running, and get a fallow every third year, and sometimes lie fallow two years. Ordinary instances of double-cropping are as follows:—Jouár followed by wheat or barley; tobacco by jouár or turnips; wheat cut green by jouár for china; cotton by methra; turnips by cotton; rice by wheat.

Manure.

The Jhang district is peculiarly rich in cattle, and the home production of manure on each well is considerable. The right to take village refuse is a fruitful cause of litigation. To many wells, flocks of sheep and goats are attached. These are rarely penned and fed on the land intended for cultivation, though instances are not absolutely wanting. They graze on the waste during the day, and are driven into a sheep-fold at night. Here their droppings accumulate. The manure is dug up twice a year and applied to the land. Old manure is the best, and ought to be powdery. New manure is said to be too strong and to burn. In the neighbourhood of the towns, their refuse and filth find a ready market. Sheep droppings are also brought in from the Bar on camels. The only expense is the cost of carriage. In the case of wells cultivated with any care, one-fifth of the area under crop in the year will have been manured. Land intended for tobacco, vegetables, and sugar-cane is most heavily manured. China and turnips get a fair, and cotton and wheat a small allowance. The average weight of manure given to the acre per annum is an unknown quantity, lying between 800 maunds and 50 maunds. In the Kachhi, soil dug out of old mounds is used as a top dressing. The earth that has collected in heaps round bushes is similarly used. Earth is not used anywhere else. The Kachhi is poorer in cattle than any other portion of the district. The following figures show the manured area in acres :--

STATEMENT OF MANURED AND UNMANURED AREA.

Number.	Tabail.	Manured.				Indugura	1.	Total
Mun	THESEL	Eb Janii.	ik fasti. Do-fasti. Tutal		Ek-fasti. Do-fasti.		Total	under crop.
1 2 0	Chinist Jhang Sherkot	16,655 £1,345 0,876	2,118 4,565 736	18,798 25,913 4,612	71,574 106,343 88,005	1,544 2,567 1,189	79,118 108,940 39,584	91,911 134,550 94,196
	Total of District	41,876	7,442	49,319	26,691	5,830	271,642	320,960

Nets.—By an error subsequently discovered, the fallow area has been included in the return of the Jhang tabell. The areas of the two other tabells are the areas under crop. The Jhang area includes 1,356 acres of helor shown as Ek-festi.

The quality of the sailab or alluvial lands, naturally moistened Chapter IV, A. by the three rivers, is of considerable variation. Sailab lands are cultivated in much the same way all over the district. Wheat is the favourite crop. In Chiniot hardly anything beyond a little Indian corn is grown for the autumn harvest. In Jhang some little jowar, mash-mung and til is grown. In Shorkot the area under kharif crops is larger. There is absolutely no rotation of crops whatever on sailab lands. Year after year the land bears its single crop—the richer soils wheat, the lighter a kharlf crop. No fallows are willingly allowed, but sailab lands often lie fallow through failure of the floods. Sometimes when the wheat-producing virtue of the soil has become somewhat exhausted, or the land has become full of weeds, a couple of gram crops are substituted. It is said that change cleans the land. Mash-mung and til are never grown on well lands, nor are gram, massar, and peas. The mode of cultivating sailab lands is described in the succeeding paragraphs which treat of each crop. Sailab land is rarely manured, only turnips receiving a small allowance. It is supposed to burn the plants. The best sailab lands are either those which have lately received a deposit of silt, or those in islands, bela, in the river, that are not inundated but obtain abundant moisture from percolation. Flooding, unless there is a deposit of silt, is apt, if of long duration or too often, to injure and weaken the land. It also hinders ploughing. With percolation ploughing is never stopped for a day, and the talla grass is destroyed before it gets rank. With percolation the kharif crop is assured, but with floods or a deposit of silt it is dangerous to sow kharif crops, and the land is usually kept for the spring harvest. Too much water is very nearly as much hated by the agriculturists as too little. It is not pleasant to find your house tumbling about your head, your land under water for a week, your grain stores damped and ruined, and hardly a dry place for the soles of your feet. Then this is generally followed by fever among human beings, and murrain among cattle. There is some small amount of double-cropping on sailab lands-sometimes, especially after a year in which the floods have failed extending to as much as a quarter of their area. Máshmung especially, and sometimes jowar, are often followed by wheat or massar. Rawán and melons are at times sown after all the spring crops.

The only canals in this district are inundation ditches. Where Canal cultivation, land not attached to a well is irrigated, the cultivation and crops are the same as on sailab lands.

Bárání or rain cultivation is found all over the district, but Báráni cultivation. except in Chiniot, the area is so small as to require no special notice. Rain cultivation in this district might with greater propriety be called surface drainage cultivation. There is little or no rain cultivation that is not situate in a depression. Bájra, wheat, gram, moth, and til are the principal crops. No rotation of crops is practised. The slight rainfall renders at intervals a fallow course compulsory. Ploughings are liberally given, but no manure.

Table No. XXII shows the number of cattle, carts, and ploughs in each tabsil of the district as returned in 1878-79. A full list of

Agriculture & Arboriculture. System of cultivating sailab lands.

Agricultural implements and appliances.

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Principal staples.

agricultural implements, with their names and uses, is given at page 83 of Mr. Steedman's Settlement Report. The implements present no peculiarities, and it is needless to reproduce the description.

Table No. XX shows the areas under the principal agricultural staples. The remaining acres under crop in 1880-81 and 1881-82 were distributed in the manner shown below:—

Crop.	-	1880-61.	1861-62.	Crop.		1880-81.	1681-62.
Eangesi China Mattar Mask (Drd) Massar Arhar		144 5,778 7,797 7,992 5,913 2,389	\$,966 7,299 0,517 565 2,545 150	Coriander Chillion Mustard Fil Zuru Miru Kasumbah Other crops	11::::::	318 318 3,061 220 1 10,265	2 3 320 3,047 253 1 12,232

On the opposite page will be found a statement, taken from Mr. Steedman's Report, giving the names of the various crops, together with the area of each as ascertained at the recent Settlement, and the seasons for sowing and reaping. The crop whose areas are especially small are classed together under the head of Miscellaneous. All soils not sailába or báráni are shown as cháhi, or irrigated from wells. The total area under crop is 326,374 acres, of which 72.7 per cent. is under spring harvest and 27.3 under autumn harvest crops. Where the cháhi and sailába areas were not ascertained, the total area is shown half way between the two columns.

Wheat cultivation.

Wheat .- The modes of cultivating wheat in the rainlands of Chiniot, the sailab lands of the rivers, and on well lands, are of course very different. The chief difference is in the number of ploughings. Most are given in the case of barani lands. It is of the utmost importance to the cultivator to have enabled as much rain as possible to sink into the soil, and to prevent, as far as he can, all loss of moisture by evaporation or surface drainage. Wheat takes six months to ripen, and is entirely dependent here upon the very uncertain rainfall. So as many ploughings are given to barani land as possible, and the roller is frequently used. The seed is always sown with a drill. After seed time there is nothing to be done but sit down and wait until the harvest. In sailáb lands the soil should be ploughed up as often as is possible, Talla grass springs up very fast, and the cleaner the soil the better the crop. A good farmer will often begin to plough sailáb lands in June if percolation has rendered the soil sufficiently moist, and he will go on ploughing as often as he can until the 1st Kátik. High and continued floods are injurious to the wheat crop, because they stop the early ploughings. If the talla is thick, very strong bullocks are required to work a plough with any effect. Sailab lands are almost always sown by drill. In Chiniot a great deal of wheat is sown broadcast. With well lands the procedure is different. If the rainfall is only ordinary, there will be hardly any land ploughed up for wheat before seed time arrives. The land intended for the kharif is ploughed first. The bullocks are probably in a very bad condition when the first rain comes, and it is generally

-3	1	Part of the second	
ADNTAR.	Cut,	16th April to 18th May. 1st April to 18th April. Ditto. ditto. 18th Deer, to und of Pen. 1st April to 18th April. 1st April to 18th April. 1st March to 1st April. 1st March to 1st April. 1st June to 1st April. 1st June to 1st April. 1st June to 1st April. 1stiloth November.	13th Sept. to 13th Jany. 2 skth Octr. to 13th Deer. 13th Octr. to 13th Doer. 13th Sover. to 13th Doer. November. 1st Septe. to 13th Nove. 1st Septe. to 13th Nove. 1st Nover. to 13th Felty. 1st Nover. to 13th Septe. 1st Nover. to 13th Septe. 1st Nover. to 13th Septe. October. 1sth Aug. to 13th Nove. October. 1sth Aug. to 13th Nove. October.
IN WHAT MONTHE.	Sown.	100   100	lei April to het May 15th July to 15th Augr.  August 15th July to 15th Augr. 15th July to 15th Augr. 15th July to 15th Augr. 15th August to 15th April 21th August to 15th April 21th August to 15th April 21th August to 15th April 15th July to 16th Angr. 15th August to 15th Sept. 15th August to 15th April 15th July April 15th July 15th October—15th Nov.
	Total.	174,550 0,000,00 0,000,00 0,000,00 0,000,00	29, 800 3,845 3,845 3,845 3,175 3,175 4,92 116 116 116 116 116 116 116 116 116 11
AREA DE ACRES.	Odrani.	242 11 1 114 1	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
AREA D	Sailde, Mérini.	58,610 11,175 11,400 12,400 13,400 13,400	2007, 8, 18, 18, 18, 18, 18, 18, 18, 18, 18,
	Cháni.	322.066 4.842.1 3.65.00 1,1.66	10, 41, 94, 11, 11, 11, 11, 11, 11, 11, 11, 11, 1
	Botherical	Triticum eulgure. Bordenn kernstichum Cher erietinum Cher erietinum Brancie Mogal Asthera Erien Brancie Bruen Triticum Lema Triticum Lema Triticum Lema Triticum Lema Stantium Triticum Cummin Mejo	Galaggia un Acristatram Pergaban mulgare Pergaban mulgare Perastilaria spicata Pitazoli ha renfortha Pitazoli mulgarum Gricularia mulgarum Gricularia spicatali Pitazoli et of Malfarum Ophismostus francontilatesa Bicarinia conformia
CROP SAMOS.	Vornacular.	Kanak Jan Jan Jan Chhelse Sag, Gonglu Nathar Namer Namer Namer Nethra Nethra Tamanaku Nethra Sarahad Sarahad	akkel
	English.	Whost Darley Grank Darley Gran Challe Gran Furning Galley Ghole Furning Narkar Louiti Nassar Muthard Leniti Trefoil Nathra Trefoil Nathra Trefoil Nathra Rectan	Cotton Great Millet Fighted F

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Wheat cultivation.

the best policy to give them a holiday before anything is done. If, when the bullocks have recovered from the effects of work during May and June, there is still more rain, then the wellowner will plough up as much land for wheat, rolling it afterwards, as he intends to sow. If there is more rain in August and September, he will give it as many more ploughings as he can. If the land has been ploughed up four or five times before seed time and is still moist, the seed will be sown broadcast, ploughed in, rolled, and ploughed again. It will be allowed to germinate, and as soon as the blades have sprung up, it will receive its first watering. If, however, the rainfall has been deficient and the well oxen have been unable to do anything more than attend to the wants of the cotton, jowar, china and turnips, until the wheat seed time comes, there will not be a single marla ploughed up beforehand. Now the sowing time is limited, and when the land has to be irrigated before being ploughed and sown, it is the zamindar's object to lose as little time as possible. Accordingly he first irrigates the land. The seed is next scattered broadcast over the unploughed surface, and is then ploughed in and rolled. The usual number of ploughings is three or four, never less than two. Wheat is never sown by drill on well-lands, those in the Hithar that receive sailab being excepted. In the Hithár, if the soil is moist enough, the well-lands are prepared for the wheat with almost as many ploughings as the pure sailab lands. The seed is sown with a drill, and the irrigation beds and well channels are made afterwards. The wheat sowings begin about 15th October, and go on to the end of December, but by the 15th December the really good time has gone by. The amount of seed varies according to the time of sowing and the kind of soil. The earlier the sowing the less seed. The seed used per acre is for báráni lands 3 topás per kanál, 90 lbs. per acre; for sailáb lands 21 topás, 75 lbs. early, 3 to 4 topás, 90 to 120 fbs. late; for cháhi 2½ to 3 topás, 75 to 90 fbs. early, 4 topás 120 fbs. late. On well lands in the Hithár on an average the wheat is watered three or four times after being sown, on Utar lands eight or nine times. In some exceptional years it ripens almost without a single watering. In others the irrigating power of the well cannot keep the whole crop sown alive. In its infancy the wheat plant suffers from mula-an insect that attacks the rootfrost, and cloudy weather. Frost does not hurt early sown wheat, provided it is followed by rain in the first 15 days of January. It rather strengthens the plant, but early frosts not followed by rain play havoc with late sown young wheat. The lighter and more sandy the soil the worse for the wheat; later on, various blights, rust and smut attack the plant. Rust is the most dangerous disease. As a rule, rust does not render the ears absolutely empty. but it shrivels up the grain to half its natural size and weight. The wheat harvest varies according to the nature of the weather. In ordinary years it begins soon after the 15th April. There are four kinds of wheat grown chiefly in this district - Chitti Rodi, Koni, Ratti Chighári, and Dandi Chighári. The first is a white beardless wheat with a long thinnish ear, chiefly grown on the upland wells in the Shorkot tahsil. The grain makes a good sample, plump and

white. Koni is another white wheat with a beardless ear, which has a square unpointed end. The grain is small but whiter than the last. It does not yield well. The third is a red wheat, bearded, and is commonest of all. It is the common wheat on sailab lands. Kal Chighari, another red wheat, has a very handsome ear, thick and garnished, with a beard that is black at the root. Lundi, joudri, and pamman are other kinds, but they are not often met with. Good wheat is grown on the upland wells in a year of favourable rainfall. The wheat of Salára, near Chiniot, has a great reputation. The average outturn of an acre of wheat on well lands is probably about 16 maunds, and on sailab 8 maunds. In the month of May young wheat is cut with a sickle, and sheep and goats and cattle are turned on to the wheat, and it is grazed down once. The advantage of this is to strengthen the stalk and to prevent the wheat from being blown or falling down. High wheat crops on well lands after irrigation are liable to go down before a very little wind. The yield is lessened.

Barley is appreciated for the following qualities. It ripens earlier than wheat, gives a heavier yield, requires fewer waterings, and will do well in a lighter soil. Very little comparatively is grown in this district. Goji, wheat and barley mixed, is a crop almost unknown. The two crops are grown together for early khawid, green wheat. Also any zamindár who keeps horses will have a few acres under barley to provide them with grain. exceptions, not above half an acre is, as a rule, grown on a well. As soon as the barley ears begin to turn colour, the tenant commences to pluck them. They are scorched and eaten. On sailab land barley is only grown where the soil is too light for a good wheat crop. It is in such case often mixed thinly with gram. Such barley is sometimes allowed to ripen, but more often is cut green as fodder. Barley as a fodder crop is often sown with turnips on well lands, and in the Hithar also, but less frequently. The best sowing time for barley is the end of Assu and the beginning of Kátik (October). It can be sown also even later than wheat. Occasionally it follows as a double crop after jowar and mah-mung on sailab lands. On well lands it is sown broadcast in sailab with a drill. The amount of seed sown is much the same as in the case of wheat, from 3 to 4 topas a kandl, 90 to 120 lbs. an acre. On well lands, land to be sown with barley will be treated with the same amount of ploughings as wheat. On sailab land less trouble is taken. In fact barley is now, owing to its fall in value, as compared with wheat, considered an inferior crop, and treated accordingly. It is liable to the same diseases as wheat in a less degree. There is only one kind of barley usually sown, called nahri. A kind of red barley called kona kala is also grown. The beard is almost black in colour.

Gram is, after wheat, the favourite rabl crop, though, as compared with wheat, the area annually under crop is as 1 to 14. Gram, it may almost be said, is never irrigated by well water. Almost all the area under gram shown in the crop statement is sailab. In the Utar also some little gram is grown in hollows

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Gram.

where surface drainage collects. Gram grows best in a stiffish Utar soil that in years of high floods gets flood water from the river. In the Hithar gram is sown in every description of soil, from stiff clay to sandy loam. A clayey soil suits it best, but with decent cold weather rain it does well in light loam. More gram is grown in the Shorkot tahsil than elsewhere. There the floods extend far inland, and the lands scantily inundated by the outer edge of the floods are put under gram. Two ploughings are considered sufficient, and more are very seldom given. Seed is sown with a drill, and the amount averages 11 topa per kanál, about 45 lbs, an acre. Very often gram only gets one ploughing, and more disgraceful farming can hardly be conceived. The seed is sown broadcast on the ground, and the plough is run through once only, and then the zamindar complains that there is no yield. Gram is almost always grazed down once by cattle. In Kátik the calves are turned on to the gram fields when the plants are only two or three inches high. Later on in Poh, cows and horses are allowed to graze. Zamindars say that if the plant gets rain afterwards, it is not injured but is strengthened, and tillers better. The cattle too are greatly benefited by a little green food at this season of the year. The custom of grazing cattle on the green crops so prevalent in this district is probably due to the very great extent to which the agricultural population depend upon cattle for their sustenance. Milk, buttermilk, and curds are articles of the commonest consumption. Gram is grown with barley on sailáb lands. A very common mixture in the Shorkot sailáb lands is mah-mung, turnips, and gram. Sometimes the gram is absent, and sometimes the turnips. The advantage of such a crop is obvious. It provides fodder for the bullocks. Mah-mung and gram do very well together, and one or other usually furnishes a good crop. If the ming is good, the gram will be very thin, and the plants weak and lanky. On the other hand, excellent gram crops often follow thin mung crop. Gram is neither watered, weeded, nor manured. It is a very healthy strong plant if it is honestly cultivated. Once it has fairly shot up, it requires very little rain. Late rain, thunderstorms, and high winds are injurious. A good downfall at Christmas, and one shower about the end of January only are needed to ensure a first class gram crop. If there is rainin Chet (March-April), the pod and grains are generally attacked by caterpillars. The outturn of gram varies greatly. The average may be struck at about 10 maunds.

Turnips,

Turnips are on well lands a most important crop in this district. If the crop is a failure, the wheat suffers. The well oxen are very heavily worked during the wheat sowings and the first waterings, and require a large amount of strengthening food. This is furnished by the jowär and turnip crops. There is nothing else. If the turnips fail, or are late as they often are owing to the failure of the first sowings, the working power of the bullocks is materially weakened, and the area under wheat does not get properly watered. Turnips, raw and cooked, are also eaten largely by the tenants during the cold weather. To them no less than to the bullocks, a bad turnip crop is a serious misfortune. It is

sometimes destroyed by kummi, a kind of mula, that attacks the Chapter IV, A. root. The best land on the well, well ploughed and liberally manured, is allotted to this crop. The land will generally have been ploughed up after rain once before the seed time arrives. The land is then irrigated and ploughed from three to six times with one or two rollings in between, if there are any clods to be broken up. The seed is sown broadcast, mixed with sand or earth or manure. Then the soil is once more rolled, and the irrigation beds and channels are made. If the soil has now become somewhat dry, a watering is given at once; but usually the first watering is given a few days after the plants have come up. When turnips are sown on well lands in soil that has been ploughed up once or twice previously, a couple of ploughings are given, and then the well beds and irrigation channels are banked The seed is sown broadcast, and mixed into the soil with the leafless branch of a thorny tree that is brushed over the ground, and a first watering is given at once. In sailab lands the process is different. The land is ploughed twice or three times and rolled. The seed is sown broadcast and ploughed in with very shallow furrows. If turnip seed gets too deep into the ground, it does not come up. Turnip sowings, commence in Badrá and go on to Kátik. There are generally two sowings, early and late. Often a third sowing is made. The amount of seed used is one paropi a kanál, 3½ seers an acre. The crop ripens in three months. Zamindars say turnips are not ready till the first frosts. It is watered five or six times. No weedings or hoeings are given, A turnip crop should not be too thick, or it runs to leaf, and the bulbs suffer. A first class crop is that which yields a good fodder crop of leaves first, and a heavy root crop afterwards. The turnip leaves are cut once, sometimes twice on the very best lands, and then the bulbs are pulled up. On sailab lands the leaves are not cut, but the whole plant is pulled up. The bulbs grow very large in sailab lands. They are occasionally eaten on the ground, but this is of course very different from what is meant by the process at home. The great difficulty about the turnip crop is to sow the seed early and yet to get it to germinate well. It suffers from a kind of grasshopper-tidda. The crop also suffers from tela (blight), but never severely.

Peas, mattar, are grown on sailab lands only, and principally in Shorkot. New alluvial land, and the beds of nelds, are the spots generally chosen. It is valued as a fodder crop only. The grain is very seldom threshed for more than the seed. The pods are picked green and eaten as a vegetable. A couple of ploughings are all that mattar lands usually obtain, and the seed is even sown broadcast on sailab land too moist to plough at all, and often yields good crops. Ordinarily the seed is sown with a drill, at the end of Assú or the beginning of Kátik. The harvest is in Chetar. The plant is pulled, not reaped. The plant suffers from caterpillars that attack the pod.

The only other rabi crops that deserve notice are massar and Massar, Methra, a fodder crop methra. Massar is a sailába crop, and is never sown on other soils. Either new alluvial soils or light land that is not

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good enough for wheat is selected. Massar is often the first crop sown on new sailab lands, or follows mattar. The land is ploughed once or twice, and the seed is sown broadcast. One ploughing takes place after the seed is sown. Maghar and Poh are the months for sowing. From 1 to 11 paropis per kanál, or from 30 to 45 lbs. of seed per acre, is the amount used. The crop ripens in the end of Chet and the beginning of Baisakh. It is reaped, not pulled. The yield is light. It is subject to much the same injuries as gram. The pods are attacked by caterpillars. Rain, wind and thunder are hurtful when the plant is in flower. Methrá is a fodder crop. It is grown on wells and sailáb lands. On wells it is found chiefly in the Kachhi circles of Jhang and Shorkot, and on sailab in the south of the Shorkot tahsil. On well lands it is sown after cotton and sometimes after jowar, rarely on uncropped ground. The seed is sown broadcast in the month of Maghar, is trampled into the ground and watered. The seed seldom fails to germinate. Five or six subsequent waterings are given, and the crop is ready to cut in Chet. A top dressing is often given to this crop. About 30 fbs. of seed is used per acre. On sailáb land methra is sown in Assú and the beginning of Kátik. Good new alluvium or a rich old clayey loam are the soils usually selected. The seed is sown broadcast and ploughed lightly in. One or two ploughings will have been given beforehand. The sailab crop ripens about the same time as that on wells. Methra is a hardy plant, and suffers but little from disease.

Cotton.

Cotton is the most valuable of the kharif crops in this district. It grows best on the Utar wells in a strong loam. Cotton on sailab lands does not do well. One reason is that the mode of cultivation is more slovenly. Even on good wells in sailab lands the crop is always lighter than in the uplands. The cotton of Shorkot grown on the Utar soil, irrigated during the hot weather months from jhaldrs or the inundation canal, is very good. Land intended for cotton ought to be ploughed up once beforehand after the cold weather rain. It is then manured. All cotton land ought to be manured, but a good deal never is. The manure is spread, and the first watering is given. If the zamindar is lazy, he sows the cotton seed smeared in cowdung broadcast. The land is then ploughed twice and rolled. If the zamindar is industrious, he will plough the land twice or perhaps three times before sowing the seed broadcast. The soldga is then put over the land twice to cover in the seed. The well beds and water channels are then made. In Chiniot cotton is sown much earlier than in the two southern tahsils. Sowings are made from the end of Chet to the middle of Jeth (April and May). About 32 fbs. of seed are used per acre. Early-sown cotton is ready to pick in Badrú. All Badrú pickings belong to the tenant. The proprietor does not share in the pickings before the 1st Assu, and he takes nothing after the Lohi festival, the 1st Magh. There is not much left after the 15th January, but what there is the tenant takes. Very little mudhi cotton is grown in this district. There is not enough rain. Cotton is hardly ever grown alone. Melons, jowar, mandia, kangni, sawák, are almost invariably found in the cotton fields.

Melons are sown with the cotton. The other crops are sown later on, and are used principally for fodder. Jouar so sown is hardly ever allowed to ripen. More or less of the other three crops ripen, and the reason is that they are sown where the soil is hard and saline and not well suited for cotton. Hence the cotton is light, and the deficiency is made up by the associated crop. In this district the cotton on wells is not usually ploughed after the bushes have reached some height. The fields are hoed and weeded, and the jowar or other seed is then scattered broadcast, in between the cotton bushes. A watering is at once given, and the seed usually germinates. Less mandia, kangni, and sawak are grown in Chiniot than in the other tahsils. During the hot months cotton is watered every sixth day. In the early stages cotton is liable to be injured by drought and hot winds. Too much rain is also injurious to cotton. The tela blight also attacks cotton. Early frosts do more damage than anything else. Two kinds of cotton are grown in the district, but the red-leaved plant is not often seen. The ordinary country plant is the most common.

Jowar and cotton are the two kharif staples. Jowar is grown largely on wells and sailab lands. On the barani lands of the Chiniot tahsíl its place is taken by bájra. It is not grown to any large extent on the northern riverain villages of the tahsil, where makal takes its place. A recent accretion of good soil, land well manured, and soil that is clayey and has lain fallow for some years, are the three best soils for jowar. On the river lands the best soil for jowar is a light sandy loam of recent formation, well moistened by percolation. There is not very much preparation in the way of ploughing. Twice is considered ample. The seed is then sown broadcast and ploughed in. The ground is not rolled unless it is cloddy. If the soil is not very moist, the seed is sown with a drill, in order to get it as deep down into the soil as possible. Sowings commence at the beginning of Sawan, and go on to the beginning of Badru. The earlier the jowar is sown the better. It ripens before the frost, and the stalks are sweetest, Jowar is only sown late for fear of floods. On wells, if there has been rain and the soil is sufficiently moist, the land is prepared and sown just as Hithár land. If there has been no rain, the land is first irrigated, then ploughed twice and rolled. The seed is sown broadcast and ploughed in. Jouar seed is always steeped in water the night before it is sown. Jouar is watered about every eight days, but it is hardly safe to lay down any rule other than that it is watered whenever it begins to dry up. Jowar, when needing water, is a sure index to the quality of the soil. Where the soil is poor, the jouar leaves shrivel up very soon; while the rest of the crop, if the soil is good, may show scarcely any signs of distress. The amount of seed sown is about 1 paropi a kanál, or 1 tb. an acre. There are numerous kinds of jowár. That grown near Khíwa and Khánúwána has the highest reputation. The varieties usually denote little more than grades of flavour in the grain when parched or scorched. Of one kind of jowar the ear is compact and the grains close together, of another the ear

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is made up of a number of small branched stems, each carrying grain. The first is called gumma, the second tilyar. Jowar is often manured. The Kachhi jowar ripens earliest in the early part of Katik, that grown in the Vichanh next, and that on the Chenab last, in the middle of Maghar. Jowar is rather a delicate plant. Besides the maladies to which it is subject before it comes to ear, early frost and late rain greatly diminish the yield and render the stalks tasteless and dry. It is also liable to toka and tela.

Bájra may be said to be grown in the northern corner of Chiniot nearest to Sháhpur only. It is hardly ever cultivated on well lands. After rain a couple or three ploughings are given. The seed is sown broadcast and ploughed in. It is not grown on wells, as its stalks are not good fodder. Otherwise it has a heavier yield than jouár, and less seed goes to the acre. It is sown from 15th Hár to 15th Sáwan, and reaped in Kátik.

MdA-mung.

Mah-mung are two different pulses, but they are grown together to a great extent in this district. The mode of cultivating both is the same. They are grown chiefly in the Hithar. There is perhaps a little more man than mung in the Hithar. In the Utar máh is seldom cultivated, while in years of favourable rainfall large areas are sown with mung. Hardly any pulse is grown in Chiniot, and very little on the Jhelam. Most is grown in the Shorkot tahsil. Mah and mung grow well in loams and light soils. Clays do not suit. Moisture in the soil is indispensable, and but little else is required. Two ploughings is all that the soil gets in the way of preparation. The seed is then sown broadcast and is ploughed in. The amount of seed varies from I to 11 topás of máh, and from 1 to 1 topá of mung per kanál. The mung is smaller than that of mah. It is sown in the end of Sawan and the beginning of Badru, and ripens in the end of Maghar or a little later. The crop is pulled, not cut. Fields that have been cropped with mah-mung are usually covered with a strong aftercrop of talla grass. In the Utar mung is cultivated in depressions or the beds of channels that carry off surface drainage. One ploughing or two, seldom more, are given. The seed is sown broadcast and ploughed in. Mah and mung plants suffer from the attacks of grasshoppers—tidda—when young, and later on caterpillars attack the pods and grains.

Moth.

Moth, another pulse, is very seldom sown in the Hithár, but after good rain a considerable area in the Utár is sown with this crop. Moth is an extremely hardy plant, and the zamíndárs say that if it once puts forth sufficient leaves to cover its root, no amount of dry weather affects it. It is supposed to be a capital grain, and the green plant first-class fodder for horses. The bhúsa is also highly prized. The bhúsa of these pulses is of two kinds—phaliát, the broken shreds of the pods and stalks, patri, the leaves. Two ploughings are deemed sufficient. The seed is sown broadcast and ploughed in. About the same quantity is used as of mung. The sowings are made rather earlier than those of máh-mung in the Hithár, as the cultivator has not the fear of floods before his eyes, and the harvest is consequently also earlier.

Til is grown in small quantities on sailāb lands, and on rain lands in the upland. It is also occasionally sown on the outskirts of a well, and such crops are sometimes irrigated. Very little is grown on the Chiniot sailāb lands. Til loves a light soil, but requires much moisture. It will grow even on rappar lands, sand covered with only a thin layer of soil. Til is much cultivated mixed with other crops,—jowār, māh, and mung. The land is prepared by one or two ploughings. The seed is sown broadcast, mixed with sand, in Sawan and the early part of Badru. The amount used is about 7½ lbs. The flowers are liable to be nipped and to fall off if the wind blows from the north. The root is also attacked by mūlā.

Makaí, or Indian corn, is grown almost solely in the Chiniot tahsil. A few patches may be seen round Maghians. It is grown both on sailab and well lands, not in the Utar. The southern boundaries of makai cultivation are Thatti Bálá Rájah on the right, and Táhli Manginí on the left bank of the Chenàb. The best makal is grown in the Gilotar villages, between the Halkiwah nala and the river, and the villages of Salára, Kázián, and Chiniot. Makaí is not grown to any considerable extent on sailáb lands. It requires a more careful cultivation. The land is ploughed up four times. The seed is sown broadcast, and is ploughed in by one or two subsequent ploughings. The amount of seed is 12 lbs., and over, an acre. Makai is generally not hoed on sailab lands. On wells, if there has been no rain, the land is watered and ploughed up twice or oftener. Then manure is put on at the rate of 320 maunds an acre. Two more ploughings are given to mix the manure well into the soil. Then seed at the rate of 24 lbs, to the acre is sown broadcast. Makai is sown thick on wells and is thinned out, the thinnings being used as fodder. The seed is ploughed in, the land rolled, and the well beds and channels made. Makai ripens in 21 months. It ought to be watered every sixth day if there is no rain, and every eighth day if there is. Makai crops on well lands are hoed twice. Makai sowings are made from Har to Badrú. The sowings in the first ten days of Har give the best crops. The preparation is the same, whenever the sowings are made. Makai takes very little out of the land, and is almost always followed by a rabi crop, either turnips or wheat. Makai is apparently free from the attacks of the insect world. It suffers from too much rain. If rain is continuous the field cannot be hoed, and the makai stalk does not thicken, and but few maize cobs are produced.

China is a crop that is largely grown in this district on well lands. Two crops are reaped in the year, the first in Jeth and Har, the second in Maghar. Land is carefully prepared and manured. Only a small area is sown with each crop. The land is first irrigated and then ploughed a couple of times. The seed is then sown broadcast and ploughed in. A rolling is given, and the well beds are made. China requires a large quantity of water. Zamindars say it ought to be watered every fourth day. It is perhaps watered

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every fifth or sixth day. The first china crop is used chiefly as fodder. It is very rarely threshed. The second china crop comes in useful for the wheat sowings. The crop is sometimes pulled up or cut half ripe, as much grain beaten out as can be, and the straw used for fodder. More generally the second crop is allowed to ripen. It is impossible to lay down any rule. If there have been good rains and grass is plentiful, the whole of the china will be allowed to ripen; if there has been but little rain and grass is scant, the whole crop may be used as fodder. China is not subject to any particular disease.

Tobacco.

Tobacco is, if properly cultivated, the most paying of all crops. As compared with sugar-cane, it sells for very nearly the same price per kanál, while it only occupies the soil for three months. It does not require any more manure or more frequent waterings. It does not exhaust the soil to the same extent. To ensure a good crop of an acrid and pungent leaf the soil must be heavily manured, but another crop can always be grown after, either jowar or turnips, or even both. Vegetables, onions, yams (ghuián), china and melons are usually grown with cane. A favourite associated crop is china, which is supposed to protect the young roots of the cane from the rays of the sun, and also to keep the soil cool. China so grown is always used as fodder. But these associated crops are not nearly as valuable as the crops that follow tobacco. In preparing soil for tobacco, four ploughings ought to be given, accompanied by four rollings if required to break the clods. The manure is then spread. Sheep and goats' droppings are best for tobacco. This manure is procured from the sheep cots in the Bar, and costs from Re. 1-0 to Re. 1-8 per six camel loads. A camel carries about five maunds. City refuse costs Rs. 3 a hundred boráhs, containing 50 maunds. On the wells near Jhang, where tobacco is an important crop, 100 boráhs of manure are given to the kanál, about 400 maunds an acre. The manure is spread and well mixed into the soil with two or three ploughings. The land is next rolled until all clods are broken. The water channels and beds are made and the transplants are put in, and a watering is at once given. The transplants are obtained thus. They may be purchased at the rate of 4 annas per square cubit, or be raised by the zamindar himself. A marla of seedlings is sufficient to plant out a kanal. The soil of the seedling bed is first carefully prepared and well worked. The seeds are sown broadcast, and are covered with an inch thickness of fine manure, and watered. The seedling bed is covered with grass during the frosty months. Transplanting commences in the middle of Phagan. The waterings are given at first every three or four days, and they gradually diminish to once a week. The first weeding and hoeing is given about 25 days after the transplanting, as soon as the plants have taken good root. Two or three hoeings are given afterwards. Three or four top dressings are given. The roots are seldom manured. The breaking off of the young shoots from the stem (Kalli bhanna) involves much labour. The flower is also pulled off. The shoots are plucked off every fourth day for a month. If this is well done, the tobacco leaves broaden, and the flavour becomes more acrid. Tobacco is cut a little, about \( \frac{1}{2} \) a kanál,

at a time. It is spread on the ground for 3 days. The leaves Chapter IV, A. are not then stripped off, but the plants are heaped on the floor of a dark room and covered with blankets or razáis, and remain thus for a week. At the end of the week the leaves are stripped off the stalks, and twisted into ropes and carried off by the purchaser. A good deal of adulteration goes on. Sajji or lime or saltpetre water is sprinkled on the leaf to make it bitter. Old bulrush mats are burnt, and the ashes mixed with cut tobacco. Sand is mixed with the tobacco twists to make it weigh heavy. The tobacco plant suffers most from the attacks of the mulá and tela insects. The mulá is a whitish-brown woolly caterpillar with a black head. The base of the stem is attacked just underneath the ground. These mula attacks often commence most inconveniently, just when the tobacco is being sold. It is then the zamindar's care to get up early in the morning and carry off and bury all the plants that have died during the night. The more rain the worse the milli attacks. Both ripe and unripe plants are attacked. Rain is only needed to wash off dust deposited on the tobacco leaves by dust-storms, or carry off the tela blight. Tela is worst in dry seasons. It is the product of an aphis. There is no remedy but rain. Heavy rain in May is most injurious. All the pungency of the leaf is washed out, and

the weight is diminished. Sugarcane is grown for gur in the Gilotar and adjoining villages of the Kálowál iláka in the Chiniot tahsíl. In Chiniot itself and Maghiana it is grown to some extent, and sold in the bazars but is not made into gur. Sugarcane grows best in a rich loam, well manured, in or near the Hithar, where water is very near to the surface. If it is once flooded by river water, so much the better, but floods are dangerous. Sugarcane requires constant waterings, and if, as in Maghiana, the well is assisted by a jhalar, it is so much the better for this crop. Not only does a jhalar raise more water, but a change from well to river water seems to greatly benefit the cane. There is a good deal of uncertainty about this crop; and this, combined with the immense amount of labour needed, and the long time that it occupies the ground, has brought it into some disrepute in Maghiana, where rice has of late years to a large extent taken its place. Sugarcane is never grown near Maghiana as a sole crop. Vegetables and china, one or other, sometimes both, always accompany it. Land cannot be ploughed too often for sugarcane, and must be heavily manured. The cuttings are planted in trenches and lightly covered over with soil, and a watering is at once given. When the cane plants are three months old, and about 2 or 21 feet high, the trenches are filled up and manure put to their roots. At this time any other crops that may have been sown with the cane is pulled up. The cane is ready to cut about the middle of Katik, but it is often in the ground until Phágan. The crop is hoed four for five times. At first it is watered every fourth day up to the 1st Jeth or later, and once a week from that time until it ripens. The worst enemy of sugarcane is the white-ant, and constant waterings are needed to keep this pest away. Jackals are also extremely fond of cane. They

Agriculture & Arboriculture. Tobacco.

Sugarcane.

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Hice.

chew but do not eat it. Frosts are injurious if they are early. A frost-bitten cane loses a large portion of its juice.

Rice.—Very little rice is grown in this district. A little is grown in new silt along the Jhelam, and there is some rice cultivation on the Hithar wells of Maghiana and Jhang. The rice of the Jhelam sailab is a coarse variety, and not much care is taken in its cultivation. The silt is not ploughed up. The seed is scattered broadcast over the surface and left to take its chance. If the silt is thick, the crop is generally a good one; but if sand is near the surface, the rice dries up when the river goes down. The sowings commence in Sawan-Badru. About 16 lbs. of seed go to the acre. The crop ripens in three months. This mode of rice cultivation is called pokh. Another method is to transplant seedlings into these mud banks. No ploughings are given; the seedlings are simply stuck into the mud. The seedlings are grown on a well. This mode is called roth. The crop takes the same time to ripen, cultivated either way. On the Maghiana well lands the soil is most carefully prepared for rice. Two or three ploughings are given, and the land is well manured. Then, when the soil has been well worked, the well beds are formed, the water turned on, and the transplanting done by boys. The continual bending down makes this rather hard work, and they are paid liberally. The crop is watered twice a week. The soil must on no account be allowed to dry up. Jhalárs are largely used in Maghiána to assist the wells. Harvest time is in Kátik. The seedling beds are prepared, and the seed sown in Baisakh and Jeth. About two pai, between 12 and 16 ths., of seed are used for 8 marlas, and the transplants given are sufficient for an acre. Transplanting is effected in Sawan in Maghiana. Rice does not suffer from diseases. It is a crop that gives a heavy yield.

Kangni, Sawak, Mandua, Kurla.

Kangni, sawák, mandúa and kúrla are crops that are grown more or less in various parts of the district, but the total area under them is insignificant. Sawak and kurla are seldom seen. Patches are grown on wells for fodder by zamindárs who keep horses, but the grain is seldom threshed. They are grown on well lands as a kharif crop, and require constant irrigation. Kangni is grown to some extent on the leased wells in the Government Bar to the east of Jhang. Stray patches are seen on wells in villages, generally associated with cotton, rarely by themselves. Mandaa is more generally grown in the two southern tahsils, hardly ever in Chiniot. It is sown on stiff saline clays, and does well where other crops hardly germinate. It is a capital fodder crop, and can generally be cut twice, often three times, if there is rain. In Dauluana in the Kachhi of Shorkot and adjoining villages, it is largely grown for its grain as a single crop. In other parts it is more usually found as a mixed erop with cotton. It is sown in Chet, Baishakh, and reaped in Assú, Kátik. The land should be ploughed up twice or thrice. The seed is sown broadcast at the rate of 71 lbs. per acre. A watering should be given once a week. Mandúa, it may be worth noting, is the ragi of Mysore. The systems of cultivation seem to be curiously different.

Melons are largely grown all over the district on sailab, well, and rain lands. The rain-land cultivation is confined to the Bar, and water melons only are, as a rule, sown. Zamindárs say that they grow wild in years of good rainfall, and there is no reason for disbelieving them. In sailab lands the seed is sown with a drill, and the drills are wide apart. Two or three ploughings are given, and one rolling last of all before the seed is drilled in, at the rate of about 1 topa a kanal, about 15 fbs. to the acre. Sowings are made in Chet, and the fruit ripens in three months. Sowings are made at intervals. The chief melon cultivation is, however, on wells in the neighbourhood of large villages and towns. The melons of Jhang and Chiniot are exceptionally good. The land is first irrigated liberally, but not over-manured, then ploughed and rolled. The seed is sown broadcast at the rate of about 71 lbs. to the acre. The seed is sometimes steeped in water and sometimes not. Young melon plants are benefited by rain, but it is injurious later on. The first sowings are made in Phagan, but most melons are sown in Chet. Melons sown in Phagan on good cool land are not watered until 1st Chet, but the melon beds are constantly hoed and weeded. Melons sown in Chet are watered regularly from the first. Well-tended melon fields near a town will be heed perhaps 10 or 12 times. The crop is generally sold to Kirárs on the ground. They do all the weeding and watching, the proprietor or cultivator being only responsible for watering the crop. The waterings are more frequent when the plants begin to fruit. Melons do well in a light loam. Round Jhang they are grown in a soil that appears to be slightly removed from sand. The plant is subject to tela blight and to hadda. It is not very clear what hadda is, but it appears that the leaves are attacked by some winged insect and die, and the whole plant withers away. Rain is most injurious to melons on wells,

L'ssú is hardly grown at all in this district. In very favourable rains, a large area is sown on the Kachhi wells as a bdráni crop, and is afterwards watered once or twice. The preparation is of the roughest description. One ploughing or two are given. The seed is sown broadcast and ploughed in. The crop is used for fodder. Sowings take place in Assú and Badrú. The crops ripen in Chet. Ussú is a hardy plant, but suffers a little from worms and caterpillars.

The division of the crops has now to be described. After the The division of the grain has been threshed and winnowed, it is collected in one heap (dheri), and is divided between the landlord and tenant and kamins. First of all the village mulla's fee, rasúl arwáhi, is measured out, and next that of the village mirásí (jakh). The remaining grain is then divided between the landlord and tenant according to the rent conditions. It is measured out in topás. The last portion of the heap is not divided. It is called talicara, and is reserved to pay the kamins, each of whom gets what he is entitled to therefrom. The fees of the kamins have already been noticed at page 90, 91. The weighman generally manages to leave just enough grain to satisfy these fees, kamiana. If any grain

Chapter IV, A. Agriculture & Arboriculture. Melons.

Ussai.

eropa [batti].

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remains over, it is usually made a present to the tenant. Some hard landlords insist on taking their share. If the talsoára is insufficient, the deficiency is made up from the proprietor's and cultivator's heaps proportionately to the shares on which the produce is divided. Each carries off his share, and the business is finished.

The reaper's wage.

It is the general custom throughout the district to pay the reaper a daily wage, but in some villages he is paid from the grain heap. The normal pay of a reaper is 3 sheaves (mohán) for every 100 sheaves reaped and tied. This would make his wage 1 th of the produce, but in reality he manages to obtain a much larger share. His wage sheaves are twice as big as the ordinary ones, and instead of 1 in 34 he really takes two. He also gets a bunch of ears (trárán). In Leiah the difference between the reaper's and the ordinary sheaf is recognised, and the one is called dharwan (the winner), and the other hárwán (the loser). Saras and niras, great and small, are also names used. If the reaper is paid from the grain heap, he takes his fee with the other kamins, calculated at so much a day or so much a kanál, rarely at a fixed share of the produce. In one Shorkot village this latter rate is fixed at 10 topás per kharwár, or 15th. For cutting well wheat there is not much variation in a reaper's rate of pay, but in the case of sailab lands it has an upward tendency. The landlord may be anxious on the score of floods to get his grain in as early as possible, or the crop may be full of thistles and camel thorn, and the reapers cannot be got to touch it except for pay higher than the ordinary. It is the general custom throughout the district for the reaper's fee to be paid to whoever reaps; whether he be the tenant or not.

The winnewer.

The winnower is paid at the rate of \$\frac{1}{3}\$th, \$4\$ topás per kharwár. Winnowing is performed with a reed tray (chhaj), and the man who winnows is called chhajjí. He is almost always a man of the sweeper (chúhra) class. His pay is high, but it covers not winnowing only, but all the other manifold jobs that he does for the proprietor during the year. The threshing (gáh karna) of the grain is usually performed by the tenant's bullocks, and he is not paid for this work; but if another man's bullocks are called in, he takes a regular fee (gahera), or 1 or 2 topás per yoke per day. There are some exceptions to the above rule in the case of upland wells, where there is some difficulty in obtaining tenants. A topa or a topa-and-a-half is allowed out of the talwára, heap, half of which goes to the proprietor and half to the tenant.

Average yield. Production and consumption of food grains, Table No. XXI shows the estimated average yield in its, per acre of each of the principal staples as shown in the Administration Report of 1881-82, while below will be found the more detailed estimates which were used to calculate the value of the gross produce for purposes of assessment in the Settlement of 1880. The average yield of the principal staples has in many cases been noticed while describing each in the preceding pages. The average consumption of food per head has already been noticed at page 49. The total consumption of food grains by the population of the

district as estimated in 1878 for the purposes of the Famine

- Grain.		Agricul- turista.	Non-agri- culturists.	Total.
Wheat Inferior grains Pulses		978,418 919,194 935,499	708,845 230,130 020,046	1,061,968 508,838 582,078
Total	-	946,044	1,286,880	9,200,374

Report is shown in maunds in the margin. The figures are based upon an estimated population of 348,027 souls. On the other hand, the average consumption

ASSUMED WHEAT VIELD PER ACRE.

per head is believed to have been over-estimated. A rough estimate of the total production, exports, and imports of food grains was also framed at the same time; and it was stated (page 152, Famine Report) that some 200,000 maunds were imported on the average in each year to meet the local consumption. Of this, three-quarters were said to be wheat and the remainder gram, bijra, &c. The imports were chiefly from Shahpur, Mianwali Dera Ismail Khan, and Montgomery.

The assumed yield in maunds per acre on the various soils for different crops, used by Mr. Steedman in the recent assessments, is given below for Jhang and Shorkot. The Chiniot produce estimates were framed by Mr. Fryer, and are not given by Mr. Steedman:—

Chapter IV, A.

Agriculture & Arboriculture.

Average yield. Production and consumption of food grains.

Settlement rates of yield per acre.

	Gimala				Cottone o	TO THE RESERVE OF	a constant
Circle.		TalintL		Chahl Khalis.	Chahi Sailab, &c.	Sallaba	Barani.
				Milin.	Mds.	Mda	Mda.
River Jhelam	10	Jhang		9	10	71	54
Myer Chanab	{	Jhang Shoraot		0	10	63 77	5 <u>4</u>
Centre Chenab	{	Jhang Shorkot	-	9	10	61	6
Centre Jhelam		Jhang		.9	10	76	51
Kachhi	{	Jhang Sharkot	**	81	10	6	5) 5
Bu	[	Jhong Shorkut	77	8) 0	12	01	0
Utar Vichanh	40.	Jhang		51	2	0	

For jowar, cotton, and barley, the differentiated rates were-

	Soil Cotton.	Jowar.	Barley.	
Shorkot	Mds.	Mds.	Mda.	

Tahail.	Soil	Circle.	Cotton,	Jowne.	Barley.
Jhang	Chahi Khalia	River and Centre Jbelam Rest of Taball River and Centre Jbelam Rest of Tabail River and Centre Jbelam Rest of Tabail	Mdn. 5 4 5 4 5	Mds.	Mda. 11 10 13 10 8 7

Chapter IV, A.
Agriculture & Arboriculture.
Settlement rates of yield per acre.

Besides wheat, cotton and joicur, the only other staples are gram, turnips, ming-mih and peas. The assumed rates of yield are given below:—

-	77				Gram.	Turnipa.	Mah-Mang.	Puns.
	Jhang Shorket	11	W.	5		Re. A. P. 15 2 0 15 0 0	34. 8. 5 0 5 20	Ps. A. P. 6 0 0 8 0 0

The above crops occupy in Shorkot 92 per cent, and in Jhang 93 per cent, of the total area under crops.

Arboriculture and Forests. Table No. XVII shows the whole area of waste land which is under the management of the Forest Department. The whole 123 square miles are unreserved forests. Their nature and adminnistration are discussed in Section B of Chapter V.

The following note on the forests of the district has been kindly furnished by Mr. Wild of the Forest Department. The principal trees of the districts have already been described at pages 15—18. The date palms of Jhang are noticed at page 81:—

"The figures below show the forests of the district under the control of the Forest Department. They adjoin the Bar forests of the Gujránwála district. They are studded with a low open jungle of jand (Prosopis spicigera); van (Salvadora elecides); karil (Capparis aphylla); and mallá (Zizyphus nummularia), sometimes one, sometimes another predominating; but never of such magnitude as to produce the impression of a forest. The trees are stunted, often decayed, and fit for nothing but firewood. The ground however is, in seasons of a fair rainfall, thickly covered with grasses of various sorts, many of them excellent fodder; and the importance and value of the tract for purposes of pasture is undoubted. The soil is comparatively rich, and only requires irrigation to be fairly productive. The wood produce is some 45 to 50 miles distant from any centre of consumption, and it is therefore difficult to utilise it. The rakhs came under the Forest Department on 5th August 1872. The Government right in the land is absolute, there being no village rights in the tract. The grazing lets for some Rs. 10,000 yearly. It is proposed to declare this area as a protected forest, and to include it in the Gujránwála district, with the forests of which it is continuous."

Names of Forest.		Arca, agres.	Names of Forest	a of Forusts.					
			Elrought forward	1	40,670				
Celifora	4.4	9,389	Elrana		7,888				
Ahlniwah		7,800	Butwali	9.00	6,057				
Gilmana		0,038	Saldpura	4.4	6,400				
Marana		0,556	Shadiwall	1	7,161				
Aeri	20	5,949	Chari	4.6	6,870				
Karlanwali	G 4	5,592	Shahkot		4,028				
Ferranwall	-21	5,498	-		- 1				
Carried eve	er	43,670	Total Acres		61,892				

#### SECTION B.-DOMESTIC ANIMALS.

According to the Punjab Administration Report of 1878-79, Chapter IV, B. the stock of this district was as below. Further details are given in Table No. XXII :-

Cows and Buffalons,	Horses.	Ponisa.	Don- keys.	Sheep and Goats.	Camela.
124,250	1,730	254	10,207	221,500	9,339

These figures appear to be open to suspicion. According to the enumeration of 1875, the last that was made for Tirni purposes, the numbers of cattle were-

Cows and Bullocks, &c.	Buffaloes.	Sheep and Goats.	Camela.
127,510	29,928	271,011	20,102

This enumeration is probably nearer the mark than the one given in the Administration Report, although the difficulties attendant on numbering cattle in this district are enormous.

The horses of this district deservedly bear a high reputation. The mares are esteemed by competent judges to be among the best in the Punjab. A horse fair is held annually and prizes distributed, but the fair is not very popular among the people, and the Tahsildars have generally to make an energetic "whip" to get the zamindars in. There are an enormous number of different

Name of bree	ri.	Name of breeders.
Palmi Eajlau Garrian Matwalian Mornian		Muhammad Khan and others, Beloches of Chhatta. Bharwanae of Khiwa and Mukhiana. Sayada of Ratta Matta. Sayada of Kot Im Shah. Liwanae of Rajisasa. Sayada of Almadpur. Allanas of Kot Khan.

breeds of horses recognised among themselves by the zamindars of this district. They are usually named from some particular mares of super-excellent quality, and belong to a particular family. A few of the best known are mentioned in the margin. According

to native opinion a mare ought not to be put to a horse, before she is 31 years old, and there are two proper seasons, one in Chet-Baisakh (15th March-15th May), the other Assú-Katik (15th September-15th November). The foal lives on the dam's milk alone for the first month only. In the second, other milk is given in addition. Camel's milk is most esteemed; if it cannot be procured, cow's or goat's milk is given. The milk is sweetened with sugar and is given in small quantities at first; and is gradually increased to as much as 5 or 6 seers a day. The foal is weaned when six months old from the mare, but continues to be given other milk for from 4 to 6 months longer. Gram soaked in milk is also given. Colts are allowed to run loose in the young wheat, and also given jowar and moth. Breaking-in commences when they are two years old. They are at first ridden bare-back. An amble is the favourite pace, but an accomplished mare is

Domestic Animals. Stock statistics,

Hornes.

Domestic Animals. Horses.

Chapter IV, B. taught to go through many other exercises. A horse in this district is considered to be full of work up to the age of 12 or 13 years, and to deteriorate afterwards. A mare will go on producing foals until she is 15 years old. Horses are fed as below :-

Period.	Foud.	
lat July-Slat August	Green wheat.  Rissa, grass and grain.  Grass and grain.  Indian ours colse, joseur, and befre heads and stalks.  Missa blass, joseur.	

Every horse-breeder sows early half, or a quarter, of an acre with wheat, or mixed wheat and barley, to afford green food at an early date for his horses. This is ready a good month before ordinary wheat. A good deal of importance is attached to this point, and the zamindars vie among themselves to have the best and earliest kháwíd. Grain is given regularly by wealthy men, but, as a rule, ordinary zamindárs only give it when they cannot get green food or fodder (patthe). It is not given as a matter of course. To get a horse into splendid condition you stall him in a darkened shed with green wheat up to his hocks, in much the same way as fat cattle are fed at Home with straw up to their knees. Boiled moth and mah, mixed with molasses and turmeric, is also given. The process takes 30 days, and at the end of the time the horse comes out as fat as butter, and unfit to do any work whatever. The names of a horse according to age are given below :-

	To 6 months.	To 2 years.	To 114 years.	To 4} years.	To 6 years.	After 6 years.
Elorse	Bachhera.	SarraL	Doals.	Chanasis	Panisala.	Malie Panj.
Mare	Backheri.	Bihan.	j Donk.	Gb		Malle Panj.

The colours in this district are kumait, dark bay; kukka kumait, chestnut; kakka, light bay; sawa, grey; nukra, white; china, roan; garra, piebald; mushki, black; kulla, something between a light bay and a light brown. A horse's colour ought always to be bright. Among the unlucky spots on a horse are the following :-

> Tára pesháni, a small white star or blaze on the forehead. This is an abominable mark; if the horse has a white face, it is all right.

> Arjal, two legs, or one, different in colour from the rest of the body. If they are all four the same colour, it is a good point ; four white stockings are good, two bad ; and one very bad.

> Bhaverian are rough spots on the coat, not liked, especially if near the tail. Naganian, a line of rough hair on the neck, if pointing to the front, a good point, if backwards towards the rider, exceedingly bad.

Garra, eyes of different colours.

Partnership in horses is carried in this district to an extent unknown in most other parts of the Punjab. It is called bháicáli.

A share in a horse is called sum. A one-quarter share is pair, a one- Chapter IV, B. eighth do-band, and a one-sixteenth tankala band. To be partners with another man in a mare is the next thing to, and very nearly as good as being his relation. Strong objections are sometimes made in Court to a witness, on the ground that he, and the party who called him, held shares in the same horses. No rules whatever regulate the feeding or keeping of a mare held in partnership. If one of the sharers wants her, he sends for her. It is a point of honour for the partner who has temporary charge of the mare to keep her in first-class condition as long as he has her. If she gets into heat, he arranges to put her to a horse. A partner, who rears the foal of a mare held jointly till it is two years old, is entitled to a one-quarter share in addition to his original share in the remaining three-fourth share. This is known as hak sambh. A horse's hide is not used in any manufacture, and is considered worthless.

The camels of this district are divided into the Thal camels, Thalican, and those of the Bars, Bari. The Thal camel is a much lighter beast than the Bar camel, and cannot carry so heavy a load. The female becomes in heat when 3 years old, in the months of Maghar—Chet. The period of gestation is 13 months. The foal is only allowed to suck a small quantity of milk for the first fifteen days. After that the foal sucks at will, and begins to browse after 21 or 22 days. Weaning takes place when the foal is 12 months old. The udder of the dam is tied up in a bag. A camel is first loaded when 3 years old, and broken into the nose string. To start with, not more than 3 maunds is the load. A full grown camel carries 8 maunds. A laden camel will go double stages, or from 20 to 30 miles a day comfortably. Only males are, as a rule, laden. A male camel will work 20 years, and a female bears up to the same age. A male camel of average quality used to be worth Rs. 60, and a female Rs. 80. Prices have gone up at least 50 per cent. of late, owing to the demand for camels for work in Afghánistán. Sikhs and others from the Manjha buy up the surplus stock annually. A camel is not an affectionate animal. He is spiteful and bears malice, and shutar kina is the climax of revengefulness. The names for camels at different ages are given below :-

	To i year.	To 2 years.	To S years.	To 4 years.	To 5 years.	To 6 years.	To Typer.	To 5 years.
Male	Toda.	Masat.	Triban.		777	Chhiga.	-	10
Female	Tusli.	Do.	Pural.	Libert.	Tro	lear		Kut

After 8 years and thenceforth the male is called armosh or út, and the female jharot. A camel is shorn annually, and the hair made into ropes and borahs used by camel men. The hide is worth from Rs. 2 to 3, and is made into kuppus, huge jars for carrying ght.

The bullocks of this district are very poor, undersized beasts, They are not bred with any care, and the zamindars do not purchase

Domestic Animals. Horses.

Camela.

Bullocks and Buffaloes.

Domestic Animals.

Bullocks and Bullalogs.

Chapter IV, B. the high class bullocks that are bred in Sindh and Dera Ghazi Khán. A bullock is put to work when 4 years old, and works well until he is 9 or 10. A bullock's age averages from 12 to 13 years.

Buffaloes are hardly used at all for agricultural purposes in this district. If a male is calved, his throat is cut, and he is devoured within a few hours of his birth. Bullocks are fed from Maghar to Magh on turnips, bhusa and cotton seed; from Phagan to Baisakh on green pea stalks, methra, wheat and grass; from Jeth to Kátik on jowár, racán, chína, bhusa, and grass. A bullock is called vachha to 1 year, vahrká to 3 years, vahr to 5 years, and then he becames a dand. A buffalo is katta for the first twelve months, and ihota afterwards. On the average (and a poor average it is) a bullock is worth Rs. 20 and a buffalo Rs. 15. The skins of dead buffaloes and bullocks are given to the mochis by zamindárs, and sold to them by non-agriculturists. A bullock's hide is worth Re. 1, a buffalo's Rs. 2.

Cows and milch Buifaloes.

Cows and female buffaloes commence to breed when they are 5 and 6 years old respectively. The period of gestation in each case is 9 and 10 months. For the first three days after birth the calf is only allowed a little milk. The milk is then too rich for the calf's digestion. The first day's milk is called bauhli, and that of the 2nd and 3rd, hobbi. Calves are weaned when three months old. After three months they graze, and are only allowed to suck for a few moments to please the cow. Where, in the case of a buffalo, the calf is a male and is devoured without delay, various artifices are used to induce the buffalo to give milk. On the average a cow gives 21, and a buffalo 5, seers of milk a day, including all the good, bad, and indifferent cattle that are in the district. A cow gives five and a buffalo seven calves. Zamíndárs will never sell milk. It is one of the strict points of honour not to do so, Ght is produced and exported to a large extent. With a good year of grass in the Bar, milk or buttermilk is worthless. It is often far easier to get than water. Hindu shop-keepers attach themselves to all the large herds of cattle in the Bar in favourable

Buffalo. Cow. To I year Vachhi. Eastl. Jhoti, .. 3 years Valuri. Dianap Garaga. Majh. Afterwards din4.

years and buy up the ght. It goes from Chiniot to Amritsar and Labore, and from the southern portion of the district to Mooltan and Karáchi. The names for cows and buffaloes of different ages will be found in the margin. Cow and buffalo hides are

worth much the same as those of bullocks and male buffaloes.

Sheep and Goats.

Sheep and goats are among the most useful stock of the district. The ewes are put to the tup when 11 years old. The period of gestation is six months. From one to three lambs are produced at a birth; for the first 20 days the lamb gets all the milk. Afterwards the lamb begins to browse, and is only given a small portion of the milk. The ewe gives milk for four months. Lambs and kids are always kept separate from their dams. When their full supply of milk is stopped, green shoots and branches of kikar, ber, &c., are given them to nibble. Sheep are shorn twice a year, in September-October and April-May. About a seer of wool is given in the two shearings. Wool is now a very valuable commodity, and zamindárs say that flock-masters in the Thal wear bracelets of gold. It mostly goes down to Karáchi. The figures below give the price of Bár wool and also of goat's hair at Maghiána for the last twenty years, in rupees per maund. Thal wool is cheaper:—

3	-	Year.		1981	1802	1960	1991	1895	1990	1807	BWII .	1800	Listo	1671		TEST	1874	1975	1870.	Esci.		Tell lierze	1860
Rupeen per me and.	}	Wool Halr	= 10	5	10 51	11. 1	13	10 54	10	7	100	9 5	4	5 L	10 #4	12j 5j		10 5§	10	0	10	12	184

Sheep skins are used for making women's shoes, covering saddles, &c. As far as the age at which put to the male, number of kids produced, and method of rearing, there is hardly any difference between sheep and goats. A goat gives from 2 seers to 4th seer of milk a day; nothing is made from the milk. A goat is usually killed when 5 or 6 years old. Sheep and goats produce about 5 times. Goat's hair is shorn every six months, and is made into pannier bags, saddle bags, ropes, nose bags, salitás, &c. It is called jat. The names of sheep and goats according to age are given below:—

		Sun	orp.		GOATSL				
	Female.		Male.		Male.	Pemale.			
To 6 months To 1 year Afterwards	 Loli Ghirapt Bhed	N H O M	Lola Ghirap Chhatra	9.1	Bakra, Pathora Chhilota Chhela	Pathori. Kharapi, Kharap. Chhell			

The donkeys can hardly be called agricultural stock. No zamindar owns one or would ride on one. They belong to Kirars and kamins, chiefly machhis. They are used to carry manure from the sheep-folds on to the land, and in various other ways. The donkey of these parts is of the most ordinary description.

# SECTION C.—OCCUPATIONS, INDUSTRIES, AND MANUFACTURES.

Table No. XXIII shows the principal occupations followed by males of over 15 years of age as returned at the Census of 1881. But the figures are perhaps the least satisfactory of all the Census statistics, for reasons explained in the Census Report, and they must be taken subject to limitations which are given in some detail in Part II, Chapter VIII, of the same Report. The figures in Table No. XXIII refer only to the

Population.	Towns.	Villages.
Agricultural Non-agricultural	5,194 31,787	168,346 189,909
Total	00,041	338,315

population of 15 years of age and over. The figures in the margin show the distribution of the whole population into agricultural and non-agricultural, calculated on the assumption that the number of women and children dependent

Chapter IV, C.

Occupations, industries and manufactures.

Sheep and Goats.

Donkeya.

Occupations of the People. Chapter IV, C.

Occupations, industries and manufactures.

Occupations of the people.

upon each male of over 15 years of age is the same, whatever his occupation. These figures, however, include as agricultural only such part of the population as are agriculturists pure and simple; and exclude not only the considerable number who combine agriculture with other occupations, but also the much larger number who depend in great measure for their livelihood upon the yield of agricultural operations. More detailed figures for the occupations of both males and females will be found at pages 133 to 142 of Table No. XIIA, and in Table No. XIIB of the Census Report of 1881. The figures for female occupations are exceedingly incomplete.

Commercial classes.

Jhang is not a commercial district. Most of the commerce is local and petty. Of the total shown as commercial population, the chief are the baniás or petty shop-keepers, who number nearly half of the whole; next in numerical importance come traders in salt; and next dealers in grain. The Khojás are the wealthiest traders in the district. The Khojás of Chiniot trade chiefly in ght, cotton, wool, leather and horns, which they export to Calcutta and Bombay, and import thence cloth, indigo and silk.

Principal industries and manufactures.

Table No. XXIV gives statistics of the manufactures of the district as they stood in 1881-82. On this subject the Deputy Commissioner wrote as follows in the District Census Report for 1881:—

"The industrial classes are chiefly composed of páclis, or weavers. Their women assist them largely in their handicraft, and some 1,200 women are shown as occupied in preparing the warp for weaving. Beside this, spinning and grinding corn are the principal female occupations. Women do not work in the fields in Jhang. The paolis form nearly a third of the entire industrial classes, and are chiefly to be found in villages, there being 15 weavers in the villages to 2 in the towns. They are greatest in numbers in the Jhang tahsil. In Jhang you find every class and tribe represented among the weavers. Even poor Sials do not despise the profits to be obtained by throwing the shuttle. The mochis are the next in numerical importance, then potters, then basket and mat-makers (chhaj pattal banánewála), carpenters, pinjárás or cotton-cleaners, and charchás or washermen. Chiniot is remarkable for its wood-work; also for its namdahs, which are cheap and of excellent quality. Very fine decorated door frames are made Also fine Kalamdáns or pen-cases, boxes, and kajáwas. Carved and foliated work, and geometrical and foliated tracery suitable for balconies, doors, door-posts, and other architectural adjuncts can also be made. Some beautiful specimens of Chiniot wood-work have been made for the Lahore Exhibition. Kot Isa Sháh is remarkable for coloured wood-work, legs of charpais, &c. First-rate saddles and harness are made in the towns of Jhang and Maghiana. The shoes of Maghiana are valued for their fine embroidered gold work. Very good imitation Chubb locks are made in Jhang and are exported to other districts."

Mr. Lockwood Kipling, Principal of the Lahore School of Art, has kindly furnished the following note on some of the special industries of the district:—

"There is no export from Jhang of enamelled ware or of articles of silversmith's work, but it is evident, from the contributions from

Maghiana to the Punjab Exhibition of 1882, that silver enamel is wrought there, though not perhaps with the neatness and finish that

distinguish the work of Mooltan.

"Chiniot, in this district, has long had a reputation for its earpentry and wood-carving. In the native scheme of town-life the house is frequently built to fit the irregular space at the owner's disposal, and its chief decorative features are elaborately ornamented doors and window-frames, which are often brought from considerable distances; just as Scandinavian doors and the like are now brought ready made to London. It is for this kind of work that the Chiniot wood-carvers are chiefly known. The wood used is usually shisham, locally tabli. The design of this really admirable work, though ornate and tending, like many other branches of modern Indian art, to excessive minuteness, is still remarkably pure and good. The carving is sharp and clear, the mergols or spandrels of the arches and the details of the pilasters are correctly drawn, while the free use of panels of geometric tracery of an Arabic character, both framed and carven, gives an air of solidity and richness. It is surprising that no use has hitherto been made either by private persons or by the Government of the best and cheapest carpentry in the province.

"At Chiniot also is wrought an inlay of brass in shisham wood, bearing a general resemblance to that of Hoshiarpur, but much bolder, freer, and better in design. This is applied to desks, glove boxes, &c., but is obviously capable of more varied and extensive application. The

contrast of the brass with the dark wood is most effective."

There are no statistics available for the general trade of the district. Table No. XXV gives particulars of the river traffic that passes through the district. The imports of food-grains have already been noticed at page 121. Jhang is an importing district, especially as regards food grains. Cloth and Manchester goods come from Mooltan and Calcutta, partly by rail and partly on camels. Lime is brought down the Jhelam from Khushab. imported from Wazírábád, Jalálpur to the east of Gujrát, Khusháb, and Mooltan in boats, and from Chunian on camels. Jowar, gram, barley, moth, mung and oil seeds are brought on camels from Kamalia, Sirsa, and Firozpur. Some wheat also comes from Firozpur at times. Rice is sent on camels from Amritsar and Lahore, Oil and oil seeds are imported from Amritsar and Bhakkar in Dera Ismail Khan. Moist sugar comes from Muzaffarnagar, Jullundur and Amritsar by rail and camels. Raw sugar (gur) is brought from Siálkot and Muzaffarnagar, and lump sugar from Mooltan. Fruits are brought down from Ghazní and Kandáhár by powindahs. Spices, condiments, and drugs come from Amritsar. Timber is floated down the Chenáb from Wazírábád and Kashmír territory. Cotton and thread are brought on camels from Dipálpur, Mooltan, Firozpur and Sháhpur. Hardware comes up from Karáchi in boats, not by rail. Amritsar also supplies a little. Camels, donkeys and boats bring salt from Khushab and Pind Dadan Khán, and alum from Kálábágh.

The export trade of this district consists mainly of a coarse description of cloth, khaddar, which is made in the district and sold chiefly to powindah merchants. In 1879 eight lakhs of rupees' worth of this cloth was sold in Maghiana alone. Most goes to

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Principal Industries and manufactures.

Course and nature of trade.

Imports.

Exporte.

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Prices, weights and measures, and communications.

Exports.

Afghánistán, and not a little to Dera Ismáil Khán, Dera Gházi Khán, Sakhi Sarwar, and Mooltan. The means of conveyance are camels. Boats are hardly ever used. Soap is sent in large quantities to Núrpur, in the Sháhpur district, to Kálábágh, Dera Ismáil Khán, and the Salt Range country, on donkeys and camels. Wool is exported to Karáchi and Firozpur. In favourable years immense quantities of ghí are produced in the Bár, and are exported to Amritsar, Firozpur, Bannú, and Dera Ismail Khán, on camels, and to Karáchi by boat. The sajjí of this district goes to Amritsar, Siálkot, Gujránwála and Wazírábád. The principal marts are Maghiána and Chiniot. Kot Isa Sháh, Wású Astháná and Ahmadpur are busy villages. Coarse cloth, wool, sajjí and soap, hides and ghí, are the exports. Food grains, sugar in various forms, and miscellaneous articles, are all imports. The fairs of the district have already been noticed at page 51.

### SECTION D.—PRICES, WEIGHTS AND MEASURES, AND COMMUNICATIONS.

Prices, wages, rent rates, interest. Table No. XXVI gives the retail bázár prices of commodities for the last twenty years. The wages of labour are shown in Table No. XXVII, and rent rates in Table No. XXII; but both sets of figures are probably of doubtful value. The figures of Table No. XXXII give the average values of land in rupees per acre.

shown in the margin, for sale and mortgage; but the quality of land varies so enormously, and the value returned is so often fictitious, that but little reliance can be placed upon the figures. The wages of

agricultural labour in the villages have already been noticed in Chapter III (page 89), and rent rates and the selling price of land in the same Chapter at pages 86—88 and 93—95. These figures are taken from the Settlement Report, and are more trustworthy than those of the table quoted above.

The following are the village prices of the chief agricultural staples used for the conversion of produce estimates into money at the Settlement of 1880:—

					RABI.				
			Cotton.	Jowar.	Mak- mung.	Til.	Bajra.	Wheat.	Grasa.
Chinion Jhang Shorkot	=======================================	0.00	 194 194 125	32 <u>1</u> 34 32	23 25 f Mah 27 f Mong 10	15 18k 15	970 97 974	30 30 30	300 40 18

On these prices Mr. Steedman remarks :-

"I do not think the adopted prices are too high. They rather err on the side of lowness. It is probable that the average price-current of the next 20 years will show considerably higher rates. The opening

Prices of agricultural staples.

of the railway to Karachi and the thereby increased facility for exporting grain to Europe will most certainly tend to keep up the prices of food grains in the Punjab. It will prevent all accumulation of grain. As soon as the price of wheat falls to the point at which it becomes profitable to export it to Europe, it will be exported, and prices will hardly ever fall below this minimum. In Jhang the prices of food grains depend almost entirely upon the prices ruling in other districts. A good harvest does not necessarily bring down prices, unless harvests elsewhere are good and prices falling. The food grains produced in Jhang do not suffice for the consumption of the resident population, and large imports are made from outside districts. The wheat harvest of 1878 was above the average, and that of 1879 a bumper crop. prices were higher after both than during the famine year of 1868-69. If exportation to Europe maintains the prices of the food grains in the Punjab at a steady high rate, prices in this district will be generally a little higher, because the home production is deficient, and the price of grain grown in Jhang will always tend to rule at a rate equal to the grain in adjoining districts, plus the cost of carriage to Jhang. For these reasons, I think that the prices assumed are far more likely to be lower than higher than future prices."

The linear measure used in Jhang is-

	quarter	and	100	-44	***		1 inch.
	inches	***	141	191	199	1.10	I both (hand).
-	hátha	With	151	*44		100	I karam, or double pas
	karams	***	200	4 118	***	.412	1 knn.
- 54	kana	211	100	016			I chain of fift foot

The square measure is-

20	siradia,	karam or 1 squ	are ka	n	***	***	l sirsaí. l marla,
	marlis			111	110	410	I kanil.
	kanála	10.1	***	ani	4.004	for in	I bigah.
20	bignha	Col	2.5.5	(M) E-	0.00	12 El G.	I ghomáo = acre.

The country karam is some six inches longer than the karam used in the Settlement Survey. Otherwise there is no difference in the two measures. In measuring up crops that have been sold standing, the rate is usually so much per kanál of 22 marlás. The extra two marlás are allowed to compensate for bare patches, water-courses and borders. Melons, green wheat, tobacco, sugarcane, turnips, &c., are near large towns sold in this way.

There is only one measure of capacity throughout the district:-

	thulas		***	1924	414		1 paropi.
4	paropia	***	131	114	- **	134-	l topa.
	topalis	***	***	944	24-	State.	I pál,
	plia	47.5	- Chr	***	***	00	1 bhora.
40	pais	***		***	***	111	I kharwar.

 Chapter IV. D.

Prices, weights and measures, and communications.

Prices of agricultural staples.

Weights and measures. Chapter IV, D.

Prices, weights and measures, and communications.

Weights and measures.

Communications.

to be used gokhú. If some grain is piled up on the thumb and finger between which the rim is held, it is said to be used chappa. There is only one measure of weight.

16 chittacks ... ... ... 1 seer of 80 tolás, 40 seers ... ... ... 1 maund.

Cotton is sold by weight, and also wool and goat's hair. Ght is purchased from the Bar graziers by the kachcha seer of 3th seer.

The figures in the margin show the communications of the district as returned in quinquennial Table No. I of the Administra-

Communications.	Miles.
Navigable rivers	166
Unmetalled roads	954

tion Report for 1878-79, while Table No. XLVI shows the distances from place to place as authoritatively fixed for the purpose of calculating travelling allowances. Table No. XIX shows the area taken up by Government for

communications in the district.

Rivers.

The Chenáb and Jhelam, which unite in this district at Trimmu ferry, are navigable for country craft throughout their courses in this district. The ferries and the distances between them are shown below, following the downward course of each river.:—

Hivers.	Stations			Distance in miles.	Remarks,
Chenab	Shakhan		100	-	Ferry.
	Chiniot	441		.12	Do.
	Sajanko		1.0	10	Do.
	Tahli Mangini			10	Do.
	Thatta Muhammad Shah	-	-0.11	7	Do.
	Chorgalli	44	-	5	Dio.
	Alli Pur	4.5		6	Do.
	Bull	40		8	Do.
The same of	Jhang Mohal	4.6	20	- 4	Do.
Thelam	Wat Inc Chat.	5.00	1 99	4	Do.
Jindiam	Mari		11.	-36	Do.
	Walnes	(0)	100	- 2	Do. Do.
-	Pat Chan	**	7.5	- 8	Do.
	B. D	912		5 4	Do.
	Machblend	9.00	-17	6	Do.
	Shahidanwala	44		5	Do.
	Kot Maldeo	-	000	8	Do.
Marie Contract	Chauntra		- 00	7	Do.
Joint Jbelam and	Trimmu	4.07	-	4	Forry and boat
Chesuab.			73		bridge.
The same of the sa	Haweli Bahadur Shah	100	4.1	8	Furry,
	Islampur	11		5	Dig.
40	Hasserwall			10	Do,
	Badh Rajbana	4.0	40	7	Do.
	Kharamwala.	**	100	6	Do.
	Dab Kalan	141		7	Do.
	Kacha Kamira	1.50	An.	6	Do.
	Faqir Sial	-	40	6	Do.

The bridge of boats is of the utmost value, indeed almost indispensable in the interests of the powindahs and passengers by the mail cart. The difficulty and trouble attendant on embarking a refractory camel in a ferry boat is only equalled by the roughness of the measures taken. Zamíndárs much prefer to cross the rivers when in flood on inflated skins. The passage is effected much quicker; there is no waiting for the boat, and there is no charge. Zamíndárs, even of the best class, prefer the samái to the ferry boat.

The main line of road is that from Dera Ismail Khan to Chapter IV, D. Chichawatni on the Lahore and Mooltan Railway. There is a mail cart service between Chichawatni and Chah Bhareri, a distance of Prices, weights 88 miles, under the management of the Deputy Commission of and measures, 88 miles, under the management of the Deputy Commissioner of Jhang, and beyond Chah Bhareri under the district authorities of Dera Ismáil Khán. The road from Cháh Bhareri to within a mile or two of Tobba Tek Singh, some 56 miles in length, is annually laid down with sar grass. There is a considerable passenger traffic by the mail cart line, and during the cold weather months the road is thronged with strings of camels belonging to the powindáh merchants of Afghanistan passing to and from the Railway Station of Chichawatni. The two other principal lines of road are from Wazirábád to Mooltan, running along the Chenáb through the towns of Jhang, Chiniot and Shorkot; and from Jhang to Shahpur, which crosses the Chenab north of Jhang, and goes thence to Kot Isá Sháh and along the Jhelam. A considerable amount of traffic passes between Lahore and Chiniot on the road that runs through the Bar. Another road runs up from Muzaffargarh through Rangpur, Ahmadpur, and Garh Maharaja to Atharah Hazari, and up north through Máchhíwál to Girot and Khusháb. There is some little use made of the road from Jhang to Ghapni and Gugera. The other roads are purely district roads, and scarcely made use of except by residents of the district. The old road to Lejah, branching off from the Dera Ismáil Khán line at Athárah Hazárí, was of some importance when Leiah was the headquarters of a Commissionership, but is little frequented now. Besides the bridge of boats over the Chenáb at Trimmú and a culvert here and there on the main roads, there are no bridges in the district.

There are good saráis at all the principal places of the district and along the more important roads, viz., at Chiniot, Bhowana, Khíva, Jhang, Bhagrí, Shorkot, Nalera, Roránwáli, Tobha Tek Singh, Bhamb, Athárah Hazárí, Cháh Bhareri, and at several places in the interior of the Bár. In the matter of rest-houses, not a single district in the Punjab is as well off as Jhang. There are first-class bungalows at Chiniot, Bukhári, Tobha Tek Singh, Shorkot, Ahmadpur, Chund, and Kot Isá Sháh. Besides these, there are either good houses, interior sarái rooms, or pokey little police bungalows at or within reach of every place of importance. Otherwise it would be impossible to be away from the Sadr, for Jhang, as Mr. Monckton notes, "is a region destitute of living brooks and shady groves." The table given on the next page shows the principal roads of the district together with the halting places on them, and the conveniences for travellers to be found at each. Communications on the road from Chichawatni Railway Station to Jhang are sometimes interrupted in the rains by floods on the Ravi river along the part of the road between the River Ravi and Kamalia town. Similarly, communication with Dera Ismail Khan is rendered difficult during the rains by floods in the Chenáb at the Trimmú ferry. On each of the rivers in question there is a bridge of boats; the Rávi bridge stands the whole year round, but the Chenab bridge is dismantled during the hot season.

and communications.

Roads.

Chapter IV, D.
Prices, weights
and measures,
and communications.

Roads.

Route.	Halting place.	Distance in miles.	Remarks.
1	Chiniot		Encamping-ground and soral, bungalow,
	Bukhari	9	unmetalled. Encamping-ground and rest-house, wa-
CPS.	Bhownna	14	metalled. Eneausping-ground and saral, bungalow, unmetalled.
700	Khiva	3.8	Encamping-ground, sarai, and police bungalow, unmetalled.
2	Jhang	16	Encamping-ground and dak bungalow, unmetalled.
Wastrabad to Modutan.	Baghri	12	Encamping-ground and saral, bungalow, unmetalled.
3	Haveli Bahadur Shah	5	Rest-house, unmetalled.
E .	Kaim Shorket	19	Encamping-ground, unmetalled. Encamping-ground, saral, bangalow and
A A			rest-house, unmetalled.
	Basti Islam Lalera	10	Encamping ground, unmetalled. Encamping ground and police burgalow, unmetalled.
-			
<b>1</b>	Jhang	**	Encamping ground, dak bungalow, and sarai unmetalled.
50	Chund Bharwani	11	Encamping-ground and rest-house, un- metalled.
POR.	Bhamb	0	Encamping-ground and sarai, bungalow, unmetalled,
Juang to Shan	Kot Isa Shah	0	Encamping-ground and rest-house, un-
1 (	Tobha Tek Singh	1	Encamping-ground, dak bungalow and surai, unmetalled.
CHICHAWATRI TO DIERA INTERI. KRASE.	Roranwali	10	Sarai, bungalow and encomping-ground, unnetailed.
HAWATH TO	Jhang	13	Ensamping-ground, dak bungalow and sarai, unmetalled.
ATA ATA	Diraj	11	Rest-house, unmetalled
Inna	Athara Hasari	6	Encamping-ground and saral, bungalow, unmetalled.
ii.	Bharect	19	Encamping ground and dak bungalow, unmetalled.
	Name (Second		
1	Alimadpur	**	Emeamping-ground and rest-house, un- metalled.
3 1	Garb Maharaja	16	Police bungalow, unmetalled
5	ALC: VINE I	10	Encamping ground and police bungalow, unmetalled.
aveni.	Tibba Gapli Athara Hazari	10	Encansping-ground, unmetalled
64		10	Encamping ground and sural, bungalow, unmetabled.
Киршал то Мохартан	Machhiwal	14	Encamping-ground and police bungalow, unmetalled.
Kin Kin	Chan dna Bullo	12	Encamping ground, unmetalled. Encamping ground, unmetalled.
	Borala		
THA CHA	Ghapui	io	Facusping ground, unmetalled. Encamping ground and sural, bungalow,
Juano To Generala,	Samundri	18	Unmetalled. Encamping ground and saral, bangalow.
29			unmetalled.
F77.1			

There are also minor roads, all unmetalled, from Jhang to Sháh Kot 70 miles,—Chiniot to Sháhpur 26 miles,—Chiniot to Khurianwála 24 miles,—Dijkot to Ghapni 16 miles,—Shorkot to Sarai Sidhu 5 miles,—Káim to Tobha Tek Singh 27 miles,—Shorkot to Bhareri 24 miles,—Shorkot to Sanási 25 miles,—Shorkot to Kamália 23 miles,—Lálián to Koh Kerána 8 miles,—Kerána to Barána 16 miles,—Lálián to Kálowál 15 miles,—Lálián to Kándiwál 10 miles,—Chiniot to Sháh Kot 30 miles, Shekhán to Pakka Mári 32 miles,—&c., &c., on which there are no fixed halting places.

The three dak bungalows are completely furnished and provided with servants. The police bungalows and district rest-

houses have furniture, crockery and cooking utensils, but no Chapter IV, D. servants.

There are Imperial Post Offices at Jhang Sadr, Jhang City, and measures, Chiniot, Shorkot, Ahmadpur, Athárah Hazári, Barána, Chhatta, Garh Máhárája, Kot Isá Sháh, Kot Shákir, Láliána, and Máchhiwal. Money Order Offices and Savings Banks are combined with the Post Offices at Jhang Sadár, Jhang City, Chiniot, Shorkot, Athárah Hazári, Kot Isá Sháh, Lálián, and Máchhíwál.

There is no Railway Telegraph line in the district. The nearest Railway or Telegraph Station is Chichawatni on the Mooltan line, 56 miles from Jhang.

Prices, weights cations.

Post offices.

Telegraph.

# CHAPTER V.

# ADMINISTRATION AND FINANCE.

### SECTION A.-GENERAL.

Chapter V, A.

General Administration.

> Executive and Judicial.

The Jhang district is under the control of the Commissioner of Mooltan, who is also Civil and Sessions Judge. The ordinary head-quarters staff of the district consists of a Deputy Commissioner and two Extra Assistant Commissioners. Each tahsil is in charge of a Tahsildár assisted by a Naib-Tahsildár, a Kánúngo, and a Náib-Kánúngo. The table below gives the patwári statistics for each tahsil:—

	r of	TARMIL STATISTICS.		II. STATISTICS.		VALUE.		DIRCLE PAY	
Tansil.	Number	Khasra num- bera.	Hold- Inga.	Reve-	Palwarie,	Nulbe.	Highest.	Lowest.	Average.
Chiniot Jimng Shorkut	905 958 189 819	304,112 503,801 210,007	27,177 29,453 19,844 86,474	Ra. 97,299 1,55,199 1,12,292 3,64,790	- Ol	8	16 8 0 17 12 0	9 9 6	Rs. A. P. 12 1 0 11 16 0 12 1 0

There are two Munsiffs in the district; one has jurisdiction within the Jhang and Shorkot tahsils, and the other within the Chiniot tahsil, and some of the villages of the Jhang tahsil lying on the right side of the road from Jhang to Shahpur. The statistics of civil and revenue litigation for the last five years, are given in Table No. XXXIX.

Criminal, police, and gaols.

2000		DISTRIBUTION.			
Class of Police.	Total	Standing	Protection		
	strong th.	guarda.	and detection.		
District (Imperial)	900	4.6	\$51		
Municipal	65		65		
River	5		5		
Ferry	9		9		
Total	474	44	430		

The police force is controlled by a District Superintendent. The strength of the force is shown in the margin. In addition to this force, 485 village watchmen are entertained and paid for by a house tax levied from villagers by lambardars.

The statement on the opposite page gives the number of thands, outposts, and patrolling stations:—

STATIONS OIL	THANAS.	Ourrests of	CHAPKIS.	Road Chaukis.	
lst class.	Sad class.	1st class.	3nd class.	Patrolling posts.	
Uch Bhowana Jiang Jianiot Shorkat Kadirgar Lating	Kurianwala Ghapul	Burana Khiya Garh Maharaja Baghri Massan Bukhari	Ahmadpur Kaim Kot Isa Shah Shekhan Kandiwal Shahkot	Burala. Reranwall. Lalura Chund. Samundri. Dijkot. Tobha Tek Singh. Rabu Khanuwana. Basti Islam. Lodhrunwala. Chandina. Chandina. Chandina. Chandina. Chandina. Chandina.	

Chapter V, A. General Administration.

Criminal, police. and gaols.

There is a cattle-pound at each than a controlled by the Deputy Commissioner through the police. The district lies within the Lahore circle, under the control of the Deputy Inspector-General of Police at Lahore.

The district gaol at head-quarters contains accommodation for 380 males and 11 female prisoners. Table No. XL gives statistics of criminal trials, Table No. XLI of police inquiries, and Table No. XLII of convicts in gaol for the last five years.

Cattle-lifting is the normal crime and practised in all parts of the district. Of the criminal tribes proclaimed under the Criminal

Tribes Act, there are none resident in the district,

The gross revenue collections of the district for the last 14 years, so far as they are made by the Financial Commissioner, are shown in Table No. XXVIII; while Tables Nos. XXIX, XXXV, XXXIV, and XXXIII give further details for Land Revenue, Excise, License Tax, and Stamps respectively. Table No. XXXIIIA shows the number and situation of registration offices.

The central distilleries for the manufacture of country liquor are situated at Jhang and Shorkot. The cultivation of the poppy

is allowed, at the rate of Rs. 2 per acre.

Table No. XXXVI gives the income and expenditure from District Funds, which are controlled by a committee consisting of 24 members selected by the Deputy Commissioner from among the leading men of the various tabsils, and of the Civil Surgeon and the 3 Tahsíldárs, as ex-officio members, and Extra Assistant Commissioner as Secretary, and the Deputy Commissioner as President. Table No. XLV gives statistics for Municipal Taxation, while the Municipalities themselves are noticed in Chapter VI.

The income from Provincial properties for the last five years

is shown below :-

Source of Income.		1877-78.	1878-79.	1879-80.	1580-91.	1881-81
Ferries with boat-bridges Ferries without boat-bridge Staging bingalows, &c. Encamping grounds Cattle-pounds Nasul proporties	 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8,732 16,910 1,001 602	6,608 15,595 1,545 305	9,829 14,424 1,604 371	8,847 13,947  1,147 602	10,88
Total	 -	E7,848	24,048	25,528	24,453	27,15

Revenue, Taxation. and Registration.

Chapter V, A. General Administration.

Revenue, Taxation, and Registration.

The ferries, bungalows, and encamping-grounds have already been noticed at pages 132-135, and the cattle-pounds at page 137. The total number of nazúl properties are 27 in this district, the principal of which are a Police Officer's quarters with a garden, 5 acres in extent, situate in the Sadr Station under care of the Deputy Commissioner, which was built in 1853 as quarters for the officer in command of the troops then stationed here, and a house for the Tahsildar of Jhang built for this purpose in 1853. Of the other 25 nazul properties there are 7 plots of land in the Jhang town of inferior quality, and the remainder 18 are of no value and situated in the interior of the district, under the care of the Deputy Commissioner. In addition to these small plots forming the ordinary nazúl property of the district, by far the largest part of the district may be considered nazúl, as the grazing rakhs which are the property of Government, and the rights of grazing on which are sold by anction annually, contain 2,100,573 acres out of a total of 2,327,734 acres for the whole district. These rakhs are the exclusive property of Government, and are under the direct management of the Deputy Commissioner; they are described at page 122. Figures for other Government estates are given in Table No. XVII, and they and their proceeds are noticed in the succeeding section of this Chapter, in which the land revenue administration of the district is treated of.

Statistics of land revenue.

Table No. XXIX gives figures for the principal items and the totals of land revenue collections since 1868-69. The remaining items for 1880-81 and 1881-82 are shown below:—

Source of revenue.	1880-81.	1831-92.				
Surplus warrant tulehenek Mulicane or proprietary duca Fisherica Revenue, fluos and forfeiturea Other Henis	6.0 0.00 0.00 0.00 0.00 0.00	***	40.00	11123	Rs 529 204 44 48 76	Ra. 307 109 44 186 2,067

Table No. XXXI gives details of balances, remissions, and agricultural advances for the last fourteen years; Table No. XXX shows the amount of assigned land revenue; while Table No. XIV gives the areas upon which the present land revenue of the district is assessed. Further details as to the basis, incidence, and working of the current settlement, will be found below in the succeeding section of this Chapter.

Education.

Table No. XXXVII gives figures for the Government and Aided, High, Middle and Primary schools of the district. The High school is at Jhang; there are Middle schools for boys at Jhang, Maghiána, Chiniot, Shorkot and Ahmadpur; while the Primary schools are situated at Jhang, Maghiána, Kot Isa Sháh, Kot Shákir, Chhatta, Mári, Munda Saiyad, Machhiwál, Chund Bharwána, Sháh Jiwana, Pir Kot Sadhana, Chela, Khíva and Bagh in the Jhang tah-il; at Lalián, Langar Makhdúm, Thatti Bálá Rája, Baráná, Kalri, Rajoá, Shekbán, and Chiniot in the Chiniot tahsíl; and at Shorkot, Ahmadpur, Garh Máhárája, Hassú Balel, Havéli Bahádur Sháh, Kaim and Kúnd Sargáná in the Shorkot tahsíl. Besides

these there are eight female schools which are situated, three at Jhang, three at Maghiana, one at Kot Isá Sháh, and one at Bagh in the Jhang tahsil. The district lies within the Mooltan circle, which forms the charge of the Inspector of Schools at Mooltan. Table No. XIII gives statistics of education collected at the census of 1881, and the general state of education has already been described at pages 52 and 53. There are some indigenous schools in the district; among these, three schools situated at Ballo in the Jhang tahsil, and Khákí and Mirnewála in the Shorkot tahsil, are alone worthy of notice.

This school was at first purely vernacular, but became a District School in 1861, and the high department was added in 1877. It consists of the high department held in the new building at Adhiwál (half way between the old city of Jhang and the civil station of Maghiána), and situated about one-and-a-half miles from the main building at Jhang, where the middle and primary departments are taught. The three departments are under the superintendence of one Head-Master, and are taught by 13 other teachers in English, Vernacular, Mathematics, and Hindi. There are no lower Primary branches of the Jhang District School. The expenditure, number of pupils, and results of examinations, for the last five years, are shown in the accompanying table:—

	Year. Expendi No.		Pass results of examinations.			
Year.	tare.	of boys.	Middle School.	Calcutta Entrance.	Punjah Entrance.	
1878-70 1879-80 1850-81 1881-82 1882-83	Rs. 7,001 7,720 8,164 7,717 7,949	248 270 270 270 263 296	5 1 12 6 18	3 2 1	9	

Table No. XXXIII gives separate figures for the last five years for each of the six dispensaries of the district, which are under the general control of the Civil Surgeon, and which are now classed as follows:—

A civil hospital at Maghiana providing forty-two beds, under charge of an Assistant Surgeon.

A first-class dispensary at Chiniot, providing twenty-four beds,

under charge of an Assistant Surgeon.

A second-class dispensary at Ahmadpur, providing fourteen beds, under charge of a Hospital Assistant.

A second-class dispensary at Shorkot, providing twelve beds, under charge of a Hospital Assistant.

A second-class dispensary at Kot Isá Sháh, providing six beds,

under charge of a Hospital Assistant.

A third-class dispensary at Jhang, under charge of a local native doctor. This is about two miles from Maghiana where there is a civil hospital.

People freely resort to the dispensaries. There are no good hakims or vaids in the district. All the dispensaries of this district

Chapter V. A.

General Administration.

Education.

Jhang District School,

Medical.

Chapter V, B, Land and Land Revenue. Medical.

Ecclessiastical.

Head-quarters of other departments. are entrusted, to a great advantage to the people, with the vaccination of their own respective towns as well as of the villages lying within five miles of them. Vaccination in the interior of the district is carried on by six vaccinators, one of whom acts also as a supervisor. Vaccination in this district has become very popular, and some few families have adopted it as an obligatory household institution. The civil hospitals at Jhang and Chiniot were founded in 1859 and 1872, respectively.

There is a small church at Jhang, capable of seating some 36 persons. No Chaplain is posted there; but the Chaplain at Mooltan occasionally visits the station, and holds service in the church.

The Executive Engineer, Mooltan, is in charge of the principal public buildings of the district; he is subordinate to the Superintending Engineer, 1st Circle, Ráwalpindi. The Post Offices are controlled by the Superintendent of Post Offices, Deraját Division, residing at Dera Ismáil Khán. The Forests, rakhs, are under the Deputy Conservator of Forests, Punjab, Gújránwála Division, whose head-quarters are at Gújránwála.

## SECTION B .- LAND AND LAND REVENUE.

Sikh system, and sarly settlements.

Some details regarding the Sikh revenue administration bave already been given in Chapter II, pages 36, 37, 38, while their fiscal system has been described in the section treating of tenures (pages 72-78). Before the year 1831, when the Mooltan province was entrusted to the management of Sáwan Mal, Jhang can scarcely be said to have had any fiscal history. The Siál chiefs of Jhang apparently took in kind one-quarter of the produce upon much the same lines as Sáwan Mal did. The story that there were 125,000 wells at work during the reign of Walidád Khán, and that all the assessment taken was only Re. 1 or a blanket per well, is probably a mere myth. Walidád, no doubt, did, by moderate assessment and fostering measures, give a great impetus to cultivation, but it is doubtful whether his collections were of that exceeding mildness for which they are given credit.

Sawan Mal's administration.

Of the administration of Sawan Mal Mr. Monekton wrote :--

"After the breaking up of the Mughal empire, the southern portion of the Punjab appears to have fallen under the rule of petty Muhammadan chiefs. Ranjit Singh, on conquering the country, made over the administration to a Hindú named Sáwan Mal. He organised afresh the revenue system, and fixed the tax on the land actually under cultivation according to the nature of the crop grown. It was simply an excise on agricultural produce, levied in the form of an average tax in money or a fixed proportion in kind, according to the choice of the zamindár. On first class crops, as tobacco, sugar, poppy, money rates were invariably charged, and no option was allowed. Fallow land and fodder crops escaped tax entirely, as also corn ate down green by cattle engaged in agriculture. Persons desirous of embarking capital in the construction of new wells or the repairs of deserted ones were encouraged by the grant of leases for periods of 20 years on a fixed cash payment of generally Rs. 12. This lease, however, only protected a

timited extent of land, usually 20 acres (20 bigahs 1), and did not cover Chapter V. B. first-class crops from the special taxes to which they were held subject under all circumstancea. Special indulgence to encourage the investment Land and Land of capital on agriculture was also bestowed in the form of inam toruddadad, which may be translated as 'grants in reward for cultiva. Sawan Mal's admition; 'e.g., a man of wealth and influence would engage to sink eight new wells and found a village, on condition of receiving in rent-free tenure, one well. But as it was found that the cultivation of this well was unduly increased to the detriment of the public revenue, the jhol tenure was introduced. By this the grantee was entitled to claim exemption for no particular well, but for a rateable deduction on all his wells, and in the case we have supposed would receive a remission of one-eighth on all his land."

Sawan Mal took both in cash and kind. Collections in kind were almost invariably made by Kankut appraisement. Nominally the Government share of the produce was half the proprietor's share of the produce, the latter being almost invariably one-half. This does not mean that the Local Government never took more than one-fourth. The appraisement of the one-fourth crop was made by Government servants, and there was nothing to prevent their over-estimating the Government share of the produce until it became really half produce, or more. It was in this way that the Sikh Government never allowed any middleman between itself and the actual cultivator of the soil. Very often the only limit to public taxation was the inability of the cultivator to pay more. The following are a few instances of the cash rates paid per bigah :wheat Re. 1-12 to Rs. 2; barley Re. 1 to Rs. 2; tobacco Rs. 8; cotton Re. 1-12 to Rs. 2-12; Indian corn Re. 1 to Rs. 2; joudar Re. 1 to Rs. 2; sarshaf Rs. 2 to Rs. 5. Besides these rates there were a host of fees and cesses known as abicab, taken in addition. The following are some of the more important :- Iktàla, an extra seer, the 41st taken in the maund; wazn kashi, tikh and mukaddami, cash payments per well at each harvest; kardwa and mohassil, the pay of the man who watched the crop in the interests of the Sarkar. Fines were also continually levied. The only persons who were safe from these exactions were persons from whom nothing could be squeezed. Liberal remissions were, however, allowed for crops that did not mature or turned out very patchy, under the name of kharaba. The revenue system of Sawan Mal was essentially fluctuating. It adapted itself to the vicissitudes of the seasons. Whether the harvest was good or bad, enough was left over to the cultivator to live upon. In itself the demand was heavy, but its elasticity prevented it from becoming oppressive. Under a good Sikh Governor the cultivator of the soil was looked upon as a Government tenant with certain rights of occupancy. So long as he went on cultivating his land and allowing himself to be annually squeezed, the State took great care of him, and was always ready to assist if he got into difficulties either through loss of cattle or with the village baniah. Ejections, except at the order of the Kardar, were unknown, and the Kardar seldom exercised the power. Whether a well paid revenue in cash or kind, the collection was suspended as soon as it fell out of work, and, on the other hand, new wells were at once brought on the rent roll. All the protection allowed to a new

Revenue.

nistration.

Chapter V, B.
Land and Land
Revenue.

Sawan Mal's administration.

well was a remission of 1th. In the case of sailab lands it was usual to exact a nagrana payment from the applicant who wished to obtain a grant of land for purposes of cultivation. In sanctioning these grants not the least respect was paid to old proprietary rights, if such existed. The valley of the Chenáb in Sawan Mal's time was in many parts an impenetrable jangal, and there are so many riverain villages whose foundation dates from that time, that no rights of individual property could have existed. Men of influence obtained for the payment of a small sum the exclusive right to cultivate large blocks of land, and these grants have now become villages. The State took her share of the produce as soon as the land commenced to bear crops. It is rather difficult to form any very clear idea as to the degree of the severity of the Revenue demand in Sawan Mal's time. It varied with the mood of the local Governor. Múl Ráj, who was for some time in charge of Jhang, was most tyrannical and oppressive in his exactions. The rule of the other Kardars was milder. The greater prevalence of hutbrakhai tenures around Jhang shows that the demand was heavier close by the head-quarters of Government than elsewhere. In the more remote parts of the district it was perhaps more difficult to enforce a heavy demand and less was taken. The worst point of the Sikh rule in the eyes of the agriculturist was that the Kardars never hesitated to impose arbitrary fines, whenever they found that a man had contrived to save money in spite of the land revenue demand.

The Kalowal ilaka under Gulab Singh.

The only portion of the Jhang district not included in the Mooltan province was the Kalowal ilaka. Here Raja Gulab Singh was generally the farmer of the revenue, though Sawan Mal held the farm for one or two years. Mr. Ouseley thus describes the Revenue Administration :- " They collected their revenue by " bathi (division of the harvest when reaped and threshed), or by " kankut (appraisement of the standing crops), or by underleasing " a few villages here and there for a certain cash payment to some " person possessing a little local influence, who again made his own " arrangements for collecting his rents according to one of the above-"described modes. As the principal lessee held his lease subject " to renewal annually, of course any contracts entered into by him " were only for a similar period." The fiscal administration of Rája Guláb Singh is still execrated by the people as the acme of extertionate taxation. The instance of his rapacity that they are most fond of quoting, is his device of taxing, not the land, but the plough bullocks at the rate of Rs. 25 a yoke. The consequence was that the people abandoned their holdings and the land became desolate. But the tax-collectors showed themselves equal to the occasion, and if they found that the cultivators of a well had fled, they promptly ascertained who the kamins were, and fleeced them.

The first Summary Settlement of Mr. Cocks.

The first Summary Settlement of the tract now included in the Jhang Settlement was made by Mr. Cocks in 1847-48, the ilàkàs of Garh Máhárája and Ahmadpur being excepted. This was before annexation. The statement on the opposite page gives some statistics of the first Summary Settlement.

Tal	eils.		Wells at work.	Cultivation.	Jama.
Chiniot Obsag Shorket	**	34	Statistics 3,490 2,117	wanting. 75,142 37,015	1,21,519 68,856
	Tutal			11	2,72,738

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Land and Land Revenue.

The first Summary Settlement of Mr. Cocks.

The only really trustworthy figures are those of the jamas. Mr. Ouseley says:—"The assessments were based on the Sikh returns, on which a reduction of 20 per cent. was allowed." Mr. Monekton writes:—"The jama was assessed on a reduction of from 10 to 15 per cent. on the previous average collections." "So impressed," says Mr. Monekton, "were they with the mild and "liberal views of English administration, that the great majority "cordially sided with us in the contest with Múl Ráj and the "insurgent Sikh chiefs, which occurred shortly after."

Mr. Cocks' assessment was undoubtedly, judged by the cash assessments of to-day, both severe and heavy. It was paid for two years because prices were high. Then came the Mooltan rebellion. Peace was, however, restored in a short time, and with tranquillity came an enermous fall in the value of grain. The prices of wheat were as follows, in seers per rupee:—

1844	29	1849	25
1845	30	1850	38
1846	33	1851	48
1847	33	1852	63
1848	37	1853	62

The assessment of no district, however fertile, could bear up against two such forces as these, the assessment being inherently severe. The inapplicability of our revenue system to the Jhang district, no doubt, had some share in rendering the payment of Mr. Cocks' assessment impossible, but it was not the chief factor, or its influence would have been felt sooner. For 1848 and 1849 the collections were made without difficulty. In 1850 a few balances remained. "But towards the close of 1851, a great cry of distress "arose throughout the district, and it was considered absolutely "necessary that a remission of the demand should be at once "effected. The distress was greatest in the Kálowál tahsíl."

The second Summary Settlement was made by Major Hamilton and Mr. Monckton in Jhang, and in the Kálowál iláka by Mr. Ouseley. The demand for the Kálowál tahsíl was first revised by Mr. Thornton, the Commissioner, at the close of 1851, and a reduction of 25 per cent. given, and again in 1853 by Mr. Ouseley. It is Mr. Ouseley's figures that are given here. The results are tabulated below:—

Tabails.			Wells	Cultivation.	Jama.
Chiniot Jhang Shorkot	-	3,34	No St. 8,290 1,003	tistics 49,942 20,911	Re. 61,246 1,02,868 58,968
	Total	-	71	-10	2,23,000

The second Summary Settlement, Chapter V, B.

Land and Land Revenue.

The Second Summary Settlement.

> The Regular Settlement. Jhang.

The reduction given amounted to 18 per cent., or roughly speaking to half a lakh out of 2½ lakhs. The revision of the first Summary Settlement was commenced by Major Hamilton, who took up first the cases of villages that needed more immediate attention, and finished by Mr. Monckton. In Kálowál, when the first Summary Settlement had broken down utterly, the revision was effected in three days by the Commissioner, Mr. Thornton, and the demand reduced from a lakh to Rs. 75,000. "This assessment was, humanly speaking, the means of speedily restoring an almost ruined and deserted tract of country to a flourishing condition." In 1853 Mr. Ouseley again revised the Kálowál Settlement, which resulted in a further decrease of Rs. 12,000 in the tahsil revenue, i.e., from Rs. 75,617 to Rs. 63,738. The revised assessments were collected with ease until the Regular Settlement.

The Regular Settlement of the Jhang district was at first entrusted to Mr. Morris, but in April 1854 Mr. Monekton took charge of the Settlement, and he remained in charge until the conclusion of operations in the early part of 1857. The first business of the Regular Settlement was the determination of what land belonged to the State and what to individuals, and the demarcation of the tract belonging to individuals into villages. There were apparently no disputes and no difficulties in defining the boundaries of the Government waste. The zamindars, instead of meditating encroachments on the State lands, in many instances threw up land that undoubtedly belonged to them, so fearful were they of the responsibilities that had hitherto attached to proprietorship of land. The adjustment of the village boundaries was a work of some magnitude not unaccompanied with difficulty. The state of proprietary right as existing at annexation, and the effect of this demarcation in bestowing proprietary right on the villagers in waste lands now included within their village, have already been described in Chapter III. The principles upon which the assessment circles were arranged were uniform for the whole district. The tract under assessment was everywhere a narrow strip of land lying between a river and the high lying uplands of the Bar or Thal. Cultivation was easiest and least expensive near the rivers, most laborious and requiring most capital in the uplands alongside the Bar or Thal. Consequently the riverain villages were collected into one circle, and those under the Bar and Thal into another. What villages remained situate between these two were formed into a third or intermediate circle. The names of the circles were River or "Hithár," Centre or "Wasat," and Upland or "Bar." For each of these circles the different rates of assessment shown on the opposite page were framed for the three descriptions of soils-chahi, sailab, and barani-classed according to the sources from which each obtained the moisture necessary for the growth of crops. There were no distinctions between châhi, châhi-sailab, châhi-jhalari, &c.

#### CHAP. V .- ADMINISTRATION AND FINANCE.

		lives.		CENTRE.			UPLAND.					
-	Tolletl.	Chalri		Sallate	Barund,		Chalch	Sattab	Barnul.	Cleahl.	Saffab.	Barani.
	Chiniot Jhang Kadhrpur (Chenab Jholam Uch	1 1 1 1/8—1/	10 8 61	Hs. A. 1 6 1 0 1 0 1 2 1 0	Rs. A 0 8 0 8 0 8 0 8		Bs. A.  1 2 1 6 0 10 0 14 1 0	Rs. A. 1 2 0 14 0 10 0 14 0 14	Rs. A. 0 8 0 8 0 8 0 8 0 6	Re. A. 0 14 1 2 }0-11 0 13	Be, A. 0 14 0 10	Rs. A. 0 8 0 8 0 8

The financial results of Mr. Monekton's Settlement, classified tabsil by tabsil, according to existing arrangements, are given below:—

	Chiniot.	Jhang.	Jhang. Shorkot.	
Jama Incidence on cultivation,	Rs. 33,995 0-15-8	Re. 1,13,246 1-1-2	Rs. 58,147 1-1-0	Ra. 2,05,388

The Regular Settlement of 113 villages in the Chiniot tabsil on the right bank of the Chenab was made by Mr. Ouseley. The Settlement was commenced in 1854. The first step was the demarcation of boundaries. This business was effected without trouble in the well-cultivated tracts, but was attended with great difficulties in the Bar. It is not necessary to notice the obstacles with which Mr. Ouseley had to contend in the demarcation of the boundaries of the Bar villages, as all the Bar round Kirana, that was transferred to Jhang in 1861 has become, it is not known exactly how, Government property. It was an integral portion of the Jhang district land revenue and tirni system, that all the waste lands in the Bar were the property of Government, and naturally the Jhang officials saw no reason for treating the Kirána Bár in a different manner. A great part of the tract transferred was unclaimed Government waste, and in respect of the portions claimed by individuals it was argued that no proprietary rights had as yet been conferred, and that there were no reasons why these claimants. who mostly belonged to the villages nearer the river and were mere temporary squatters in the Bar, should be regarded as having other or greater rights than their brethren in the Sándal Bár. The result was that as in the Sándal, so in the Kirána Bár, no private rights of property whatever were recognised in 1861. The inhabitants of the tract transferred were charged with tirni and allowed to graze throughout the Bar that was included within the Jhang district. Soils were classed as chàhi, sailàba, and bàràni. Well-irrigated lands were further divided into chahi-khalis, land irrigated only by wells, and chahi-sailab, land irrigated by wells but also subject to inundation from the river. An estimate was then made of " what " was the minimum outturn of a bad bloah of chahi land in the best " assessment division." The usual cesses were then deducted and one quarter of the remainder assumed to be the Government share. This share was converted into a money value and a produce rate

Chapter V. B. Land and Land Revenue.

> The Regular Settlement, Jhung.

> The Regular Settlement, Kalowal.

Chapter V, B.

Land and Land Revenue.

> The Regular Settlement. Kalowal.

per acre obtained. Thence the revenue rates for the circles were deduced. The classification of villages with regard to their facilities of irrigation was in Kálowál confined to two divisions, into Hithár and Nakka. The revenue rates are subjoined:—

	Assessment	RATE PER ACRE.							
Tahail.	Circle.	Chahi-Sailab.	Chahi-Khalis,	Sailab.	Barani.				
Kalowal {	Hithar i 1st class Nakka	Ha. A. P. 2 4 0 2 0 0	Ha. A. P. 1 12 0 1 8 0 1 12 0	Rs. A. P. 1 8 0 1 4 0	Ba. A. P.				

In actual assessment Mr. Ouseley went far below his rates. The 113 villages were assessed with a jama of Rs. 33,476, falling on cultivation at the rate of Rs. 1-2-10 per acre.

First Summary Settlement of Garh Mähäråja und Ahmadpar tualekts, by Mr. Wedderburn.

It has already been explained why the ilakas of Garh Mábárája and Ahmadpur were not settled by Mr. Cocks. They were first summarily settled by Mr. Wedderburn in 1850. His assessment was in Garh Maharaja 21 per cent., and in Ahmadpur 16.7 per cent. lower than the collections of past years, and amounted to Rs. 30,452. In spite of the reductions given on previous collections in kind, the assessment was extremely severe. In Ahmadpur the previous collections were very heavy. The taaluka was originally held in jagir by Imam Shah who "had the character of being " very exacting with the raiate, and laid on a variety of cesses in " addition to the bathi, which was itself heavy." When the jagir was resumed it was included in Sawan Mal's farm, and he "was " not the man to make reductions, so all the cesses and heavy rates "were retained." Mr. Wedderburn's Settlement continued in force until 1857, when Captain Graham was deputed to revise it. Some revisions of the demand had taken place between 1850 and 1857, and the jama in the latter year of these two taalukus amounted to Rs. 30,268.

The Second Summary Settlement, by Captain Graham,

The result of the revision by Captain Graham, known as the Second Summary Settlement, was an enhancement of the jama to Rs. 32,460. The whole of the increase except Rs. 53 was taken in Garh Máhárája. A Settlement enhancing the demand of a previous heavy settlement could have but one end. It broke down in a year-and-a-half.

The Third Summary Settlement, by Captains Tighe and Maxwell.

The Summary Settlement of Captain Graham was again revised by Captains Tighe and Maxwell. The new assessments gave a decrease of Rs. 3,485=10.7 per cent. on the jama of the Second Summary Settlement. This Third Summary Settlement worked extremely well, and when the Fourth Summary Settlement was made in 1862, the measurements of that year showed a large increase in the cultivated area and in the number of wells at work.

The Fourth Summary Settlement, by Major Dwyer.

In 1861 these two taalukas were transferred from the Muzaffargarh to the Jhang district, under instructions conveyed in the Financial Commissioner's No. 1832 of 29th April 1861. At the close of 1862 the preparation of a Record of Rights for the villages of these two taalukas was commenced. The old assessment was also

once more revised. The assessment is generally known as that of Major Dwyer, but the Assessment Report was sent in by Major Lane in 1865. The new assessment which remained in force until the assessment lately announced, gave a further reduction of Rs. 473. Its incidence on the cultivated area fell at a little less than Re. 1 per acre. The jama was on the whole moderate, but in several villages the assessments were heavy.

The following tabular statement gives the more important statistics of the five revisions of assessment that these two taalukas have undergone since annexation :-

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	and Land venue.

Summary of the Garb Maharaja and Ahmadpur assem-

Year,	By whom made,	Wells.	Cultivation.	Jama.
1850	Mr. Wedderburn's  Ditto Revised Captain Graham's Captain Maxwell's Major Dwyer's	723	14,934	30,452
1850-57		No	details.	30,268
1857		719	20,296	32,460
1859		740	20,296	28,975
1862		915	28,548	28,502

Thus, of the district as it at present exists, the assessments which were to be revised when the recent re-settlement was undertaken stood as follows:-

Summary of the assessment in force when the Revised Settlement commen-

	Mr. Monckton.	Mr. Ouseley.	Major Dwyer.	Total.
Villages	0.05.200	113	39	796
Assessment		33,476	28,502	2,67,367

Of the three assessments that of Mr. Ouseley was undoubtedly the most heavy, and that of Major Dwyer the lightest. Mr. Monekton's was, with a few exceptions, an exceedingly fair assessment, both in the interests of Government and the people.

The First Regular Settlement of the district has been eminently satisfactory, and the results are everything that could be Regular Settlement. wished. With the exception of some temporary remissions and revisions of assessment in a few villages in the Shorkot Kachhi, and some isolated instances of over-assessed upland villages in that and the other tahsils, there has been no occasion for correction of the work of the three Settlement Officers. The enormous improvement that had taken place in agricultural assets and resources by the time the Revised Settlement commenced is clearly set forth with due detail in Mr. Steedman's report on that Settlement. In fac t, improvement seems to have set in almost immediately Mr. Monekton finished his work, and in 1857 "the agriculturists of " the Jhang district were contentedly fulfilling their engagements " with the State, and steadily pursuing their ordinary avocations, " while the adjoining district of Gugera was in a full blaze of insur-" rection, and the nomad tribes of the intervening Bar jangal were " sacking the frontier thanas. The pastoral tribes on the other " side in the Shahpur district were showing at the same time a " warlike spirit; and had not the memory of days of license under "the Sikh rule been succeeded by better feelings among the

The results and working of the

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Revision of Settlement of 1880.

Assessment Circles.

"Muhammadan population of this district, a serious revolt in the southern provinces of the Punjab must have been added to the many lesser complications arising from the mighty struggle then in progress throughout upper Hindustan."

The Settlements described above were revised by Mr. Steedman between 1874 and 1880. His assessments are fully described in the following pages, which are taken from his Settlement Report:—

The tract under assessment is composed of the Jhelam and the Upper and Lower Chenáb valleys, hemmed in on either side by the high-lying plateaux of the Sándal and Kirána Bárs and the Thal, and a few villages on the banks of the Ravi. The primary classification that at once suggested itself was of villages on the river bank, and villages in the uplands. It was further found convenient to arrange the villages on the left bank of the Chenab from the Gujránwála border to the Rávi, and also those on the left bank of the Jhelam, into the three divisions of River, Centre, and Utár or Bár. On the right bank of the Chenáb it was deemed neither necessary nor convenient to have two divisions of the upland villages. A set of villages, fourteen in number, lying west of the Chenab on either bank of the Halkiwah Nala, an inlet from the river, formed an exception. This tract is a natural basin between the higher lands of the River circle villages to the south, and the Utar lands on the north. The soil is flooded by the overflow of this Nala, and is so good, and its agricultural produce so much more valuable than on the upland wells, that the villages could not well be included in the Utar circle, while they were too far from the river to be classed with the river villages. In the country lying west of the Jhelam and Chenab in the Sind Sagar Doab, the separation of the Kachhi villages into two divisions was unnecessary. The names of the circles are given below :-

Tract.	No.	Assessment Circles.
Between the Chenáb and Sándal Bár	1 2 3	River or Hithar, Centre or Wasat, Upland or Bar,
Between the Chenáb and Kirána Bár {	1 2 3	River or Hithár. Halkiwáh, Upland or Utár.
Between the Jhelam and Kirana Bar	1 2 3	River or Hithár. Centre or Wasat, Upland or Utar,
Between the Jhelam and j Jhelam-Chenáb and Thal.	1 2	River or Hithár. Upland or Kachhi.

Classification of soils, and revenue rates adopted.

The villages having been thus arranged into circles, the second step was to fix revenue rates for each description of soil in each circle. The three main soil divisions are chahi irrigated by wells, sailab naturally irrigated by river floods, barant dependent on rain alone. There are several sub-divisions of well-irrigated land which are given below with their vernacular names:—

Vernacular name. Cháhi-Khális Cháhi-Sailab Chahi-Naihri Cháhi-Jhalári Jhaldri

Irrigated by

English equivalent. Well alone. Well and river flood, Well and canal by flow. temporary. Makir alone.

Well assisted by a jhalar, permanent or

The inundation canals of this district are only found in one tabsil and are of rough construction. Lands irrigated by canal flow have always been assessed at the same rates as sailab lands.

Bardal or rain-lands. One assessment rate only has been used throughout the district, 8 annas an acre. The only important rain cultivation is in the northernmost corner of Chiniot, in the Nissowana villages adjoining Shahpur. Here Mr. Steedman assessed considerably above his rates. In other portions of the Chiniot tahsil the rate itself was taken; but in Jhang and Shorkot he practically put no assessment on bardal cultivation. It was thrown in with the well assessment. Where the assessment was fluctuating on wells it was necessarily not assessed. The total barant area in the district under cultivation shown in the returns is 3.480 acres.

River-flooded land-Sailab. The assessment rates used are given below in tabular form for the rivers and tahsils :-

RATES SANCTIONED FOR SAILAR LANDS ON THE

	Chenáb.	Jhelam.	Rávi.	
Tahsil Chiniot. Tahsil Jhan		Tabsil Shorket.	All Tahsils. Tahsil Shorkot.	
Rs. A. P. 0 12 0	Rs. A. P. 0 15 0	Rs. A. P. 1 0 0	Rs. A. P. 1 0 0	Bs. A. P. 1 0 0

For an unimportant sailab and naihri area included in villages not in the river circles lower rates given below were sanctioned in Jhang and Shorkot :-

	Jhang.	Shorkot,		
Centre Chenab.	Utár Vichanh.	Kachhl.	Bár.	Centre Chenáb.
Ra. A. P. 0 12 0	Rs. A. P. 0 8 0	Rs. A. P. 0 12 0	Rs. A. P. 0 12 0	Rs. A. P. 0 13 0

The reason for reducing the rates in these circles was that the sailab lands, being more distant from the stream, were less certain of being annually flooded than land of the same description in the riverain villages.

Before attacking the rates themselves, the preliminary point, one of some magnitude, whether the sailab lands should be assessed on a fluctuating system or not, had to be decided. Eventually a fixed assessment for the sailab lands of the Chenab and Jhelam, and

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Rain-lands assessment.

The assessment of Smilet lands.

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The suitability of a system of fluctuating assessment for suibib lands.

a fluctuating assessment for the Rávi villages were sanctioned. On this subject Mr. Steedman writes:—

"In the case of the Jhelam villages a fixed assessment is undoubtedly the right system. They are exposed to more danger from over than under-flooding. With reference to the Chenáb, I am not so certain that my recommendations were the best possible. I mean that there are certain villages whose futures seem less reseate and promising than they did two or three years ago, Nevertheless, considering the exceedingly light rate at which it was proposed to assess the sailab lands, I think that the assessment should be fixed, not fluctuating. For the Jhelam and the lower Chenáb sailab I have no anxiety. I think the fixed assessments will work well, with a little management on the part of the district authorities. The assessment on the Upper Chenab in Chiniot is so exceedingly light that the occurrence of a bad harvest or a failure of flood ought not to have any serious effects. In Jhang the outlook is not so reassuring. I think a good deal might be done to ensure a flooding to villages in the river circles by opening out old channels, and assisting the people to throw up embankments to flood their lands. Suspensions of demand should also be liberally allowed. Two bad years rarely come together, and in a good year the sailab lands might pay half as much again as the assessment without difficulty. There are five villages who have applied for a fluctuating assessment, and it has been sanctioned for Bindi Mahni in Jhang, and Badh Rajbána in Shorkot. In the future I would give all other villages, upon whom a fixed assessment pressed heavily, the same system."

System adopted in assessing wells.

The assessment of well-irrigated lands was a far more difficult matter than the assessment of sailàb lands. In the Chiniot tahsîl the wells in all circles were assessed by an average rate on cultivation. The same method was observed in the assessments of the river circles of the other two tahsîls. In the Centre-Jhelam circle of tahsîl Jhang and the Centre-Chenáb circle of tahsîl Shorkot the assessments were framed partly by a well, and partly by an acreage rate. In the remaining circles of the Bár and Káchhi, in both tahsîls, where a system of fluctuating assessment on wells has been introduced, and in the Utár Vichanh and Centre-Chenáb circles of tahsîl Jhang, the assessment unit has been, not the acre, but the well.

The well assessment in river villages.

The rates used in the river circles are given below :-

Tahsil.	Acreage rates for	or well lands.	Average	Average rates on	
Toman.	Cháhi-sailáb, &c.	Cháhi-Khális.	well rate.	Jhalari.	
1	Rs. A. P.	Rs. A. P.	Ra,	Ra. A. P.	
Chiniot Jhang Shorkot Chenáb Jhelam	1 4 0 1 6 0 1 6 0 1 6 0	1 4 0 1 5 0 1 5 0 1 4 0	34 24 27 24	1 2 0	

In Chiniot the revenue rate sanctioned for the Halkiwah circle was nominally Rs. 1-6-0, but practically the assessments were made with a very much lower rate, as the actual assessment was 10 per cent. below the rates' jama.

The rates sanctioned and used for the assessment of upland Chapter V. B. wells are given in a tabular form below-Land and Land

	p. Lin	Circles.						
Tahsil,	Detail,	Centre.	Bar.	Utar.	Kachhi.			
Chiniot	Per acre Per well Per well Per well Per acre Per well Per well	Ba. A. P. 1 2 0 20 0 0 1 6 4 20 0 0 1 4 0 26 0 0 1 6 0 19 0 0	Rs. A. P. 0 14 0 24 0 0 1 0 2 17 0 0	Ra. A. P. 1 1 0 22 0 0 0 12 0 18 6 0	Rs. A. P.			

Revenue. The upland well rates.

The difference in the conditions of agriculture on the upland The system of fluewells as compared with those near rivers has been noted, together tuating assessments with the fact that in the Bar and Kachhi circles of Jhang and Shorkot in the Bar and Kachhi a system of assessment, fluctuating with the number of wells at circles of Taballa work at each harvest, has been introduced. The nature of this Jhang and Shorkot. fluctuating assessment and the reasons for its introduction are given in the following paragraphs :-

"The condition of agriculture in both the Bar and the Kachhi circles is one of extreme uncertainty. Cultivation is expensive. Takawi advances are universal. Tenants are poor and migratory. The harvests depend upon the rainfall, and bad harvests are frequent. Not very much rain is required, but it must be seasonable. Large quantities of fodder crops have to be grown, as no grass, or none to speak of except sar, is produced in the tract. Add to this that many well lands have a tendency to deteriorate after a few years' cultivation, and another and important element of uncertainty is introduced. These are the facts that first drew my attention to the need of some system of assessment more elastic than that of a fixed cash revenue, which while liberally allowing remission to impoverished villages would also recoup the Government for such losses of revenue by taxing at a light rate new wells and new cultivation.

"The system adopted is as follows: A jama for each village has been announced in the ordinary way and distributed by bachh, over the wells in cultivation. The jama assessed on each well will be paid by the proprietors thereof so long as the well continues to work. If the well falls out of work a remission will at once be given, dating from the harvest after the well ceased working. There will be no measurements of the crop area year by year. If there is a crop of any description, however poor it may be, the well owner will be liable for the full instalment of the harvest at which that crop is reaped. When a well assessed at this Settlement subsequently falls out of work, and is afterwards again brought into cultivation, the jama assessed on the well at the original bach's will be at once reimposed. This disposes of wells assessed at Settlement. New wells will be allowed to remain revenuefree for three years, after which they will come under assessment. For old wells repaired, one year's grace will be ample. All new wells in any given village after the expiry of the period of grace will pay at a uniform well rate, fixed by the Settlement Officer and announced by him with the other jama, and generally about the lower than the average incidence per well of the announced village jama. The assessment on a new well will be remitted at once on its falling out of cultivation, and at once reimposed when again put to work."

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System of fluctuating assessments for river lands.

The system of fluctuating assessments on wells has just been described. In river villages there are two phases of the system. In one, the well estates in which wells are at work are given a fixed assessment, and all the area outside the well estates under fixed assessment is held to be under a fluctuating assessment. The cultivation in the portion under fluctuating assessment is measured up annually and assessed at fixed village rates. On the Ravi different rates for lands irrigated by jhalárs and for pure sailáb lands were framed, as there is a considerable amount of jhalári cultivation in the villages which is much more valuable than sailab. The sanctioned rates were Re. 1-4 for jhalári and Re. 1 sailáb. The other phase is where the whole village area is placed under a fluctuating assessment, and the cultivated area measured up year by year and assessed at one rate, that for sailab. If there are any wells at work, a fixed sum to be paid annually in addition to the fluctuating assessment is imposed upon them, calculated to represent the difference between the irrigated and unirrigated sailab rate. For instance, there are 10 wells with an area of 200 acres of chahi cultivation. At Re. 1-4 per acre the assessment amounts to Rs. 250, but at Re. 1, the sailab rate, the demand only amounts to Rs. 200. The difference constitutes the fixed abiana to be levied on the wells. This abiana is fixed, and is paid annually in addition to the demand given by the rate on the cultivation of the year. In addition to the Rávi villages and the two villages in the Zinda Sháh. Halkiwah circle of Chiniot, Mianwali and Siálánwála. Daddwana. Changránwála, a few villages marginally Bindi mahni. noted, in the Hithar Chenab circle of tahsil Jhang, have applied for a fluctuating system of assessment.

Date assessments.

There are no date assessments in Chiniot, as the palms are few and nowhere found in sufficient number to be worth assessing. The number of palms and the assessment, for the old and the new settlements are given below:—

×			THE REGU	LAR SETT	LEMENT	er 1856.	The Revised Settlement of 1600.			
Tahu	il.		Female.	Male.	Small.	Jama.	Female.	Male.	Small	Jama.
Jhang Bharkat	WW 44	p -	28,040 20,992	21,678 19,212	111	90% 1,170	29,348 29,330	25,691 15,000	61,885 23,229	1,637 1,450
District	11		49,032	20,565	11,539	2,079	62,881	40,600	55,114	3,097

The rates used in the assessment were 1 anna per female in Shorkot and in Jhang, 9 pies in the villages on the Jhelam, and 6 pies in those on the Chenáb. In Jhang there are very few trees on the left bank of the Chenáb. On the right there are some groves. Most of the assessed palms are in villages on the Jhelam. Date palms are found in most villages on the lower Chenáb. The dates of Shorkot and Mirak are the best. The outturn of fruit per tree varies considerably. A maund is the maximum. The retail price of dates also fluctuates greatly. The best Shorkot dates are worth Rs, 8 a maund, the worst Re, 1-4. The date crop is usually

sold in the green, some time before it ripens. The proprietor thus escapes all risk, but obtains only half the price the dates will fetch at retail prices if the year is a favourable one. The purchaser takes the risks, and they are many. He is also liable for certain charges, the pay of the watchman at the rate of the produce, rakhāi, and the man who gathers the dates at the rate of the charhāi. The great enemy of dates is rain. Early and continued rain rots them, and the whole crop is often lost. Estimating the average outturn of a palm at 16 seers, and putting the rakhāi and charhāi charges at the the have 14 seers left, worth 7 annas at Re. 1-4 a maund. Half of this is  $3\frac{1}{2}$  annas, the Government share. But this rate cannot be taken because of the uncertainty of the crops ripening in good condition. The same palm never bears well two years running. A good crop every alternate year is as much as can be hoped for.

The statement below gives the figures of the half net assets estimate for the three tahsils, also the same arranged in percentages in antique type:—

Onapter v. D.
Land and Land Revenue.
Date assessments.

Half net sascia

	1		Chiniot.	Jhang.	Shorkot.	District.
Gross produce  Deduct fodder  Balance Kamiana rate Kamiana  Balance Rate of batai  Net assets Half net assets Share of gross produce Actual assessments	100 200 200 200 200 200 200 200 200 200		100 10,89,545 12 1,30,745 88 9,58,800 19 1,82,172 69 7,76,628 42 30 3,26,184 1,63,092 15 96,708	100 14,19,045 12 1,70,285 88 12,48,760 16 1,99,802 72 10,48,958 47 34 4,93,010 2,46,505 17 1,51,072	100 9,81,959 11 1,08,015 89 8,73,944 17 1,48,569 72 7,25,375 49 36 3,55,434 1,77,717 18 1,09,597	100 34,90,549 12 4,09,045 88 30,81,504 17 5,30,543 71 25,50,961 46 34 11,74,628 5,87,314 3,57,377
Share of gross produce	***	410	-089	.106	112	102

The reasons why we cannot take a cash revenue equal either to the half net assets estimate or to ith of the gross produce are these. In the case of wells the initial cost of construction, the expenses of maintenance, interest on takávi advances to tenants, insurance against the loss of the advance itself, losses from occasional failures of crops, have all to be considered in fixing the assessment, but cannot be accurately shown in the tabulated statement of a half net assets estimate. The share of the produce which the landlord gets varies from '29 in Chiniot to '36 in Shorkot. In Jhang it is 34. The average is about 33 or 1rd. Now, if the Government demand is fixed at 1th for the rain lands of the sub-montane districts, where there are no expenses whatever, or hardly any to the proprietor who takes \frac{1}{2} batai, it is manifest that in Jhang, where the share of the produce that actually reaches the landlord's hands is only grd, out of which much wear and tear of his capital invested in the wells, and advances to the cultivator

Why the assessments are below the produce estimate, Chapter V. B.

Land and Land Revenue.

Comparison between the assets and assessments at the Regular and Revised Settlements.

has to be recovered, to take half net assets will be a much heavier assessment than in districts more favourably situated. This is the reason why we cannot take more than to the gross produce, equal to about and of the net assets.

The district assets at last Settlement and now are compared below:—

	1		tres under	cultivation.		Walls	Yoken.	Popula-
		Chald	Sallab.	Barant.	Total.	work.	1911	tion.
Regular Settlement Revised Settlement Increase - Decrease - Percentage	34 : 1	Acres. 190,883 227,290 +36,410 + 19	Aerea. 10,347 98,745 +38,401 + 64	Agres. 1,773 3,480 +1,707 + 06	Acres, 250,600 320,527 +76,524 + 30	8,710 11,018 +2,308 + 26	45,754	2,50,736 3,17,256 +66,532 + 27

The statement subjoined gives the district assessments as they stood at last Settlement and as they stand now:—

11/-		1st Summary settlement.	2nd Summary settlement.	Regular acttlement.	Domand of last year.	Present	Rate on cultivation.
Chiniot Jhang Sherkot District	 **	Ra. 82,563 1,21,519 98,908 8,08,190	Rs. 61,246 1,92,858 91,448 2,55,552	Ra. 67,472 1,13,246 86,649 2,67,367	Ra. 70,097 1,22,243 01,117 2,84,857	Ra. 96,708 1,51,072 1,10,087 3,57,867	Rs. A. P. 0 15 10 1 1 11 1 2 6 1 1 2

Of the present assessment of Rs. 3,57,867. Rs. 39,910 is fluctuating, viz., Chiniot Rs. 1,032, Jhang Rs. 12,882, and Shorkot Rs. 25,996. Deductions have also to be made on account of the 1 per cent. allowed to zaildàrs out of the Government demand, remissions granted to wells protectively leased, and on other accounts.

Instalments.

In Chiniot, with the exception of a few villages in the Halkiwáh circle, the instalments of the revenue are ard rabi, and and ard kharif. Half the rabi demand is payable on the 15th June and half on the 15th July. The whole of the kharif instalment is paid on the 1st January. In Jhang and Shorkot the same ratio between the amounts of revenue payable at each harvest has been retained, and the rabi instalments fall due on the same dates as in Chiniot, but the kharif demand is payable half on the 15th December and half on 15th January.

Cosses.

The cesses levied upon land revenue are shown below:-

			Ra.	A.	P.	
(1)	Local rates	@	8	5	4	per cent.
(2)	Road	0	1	0	0	32
(3)	Education	(4)	1	0.	0	11
(4)	District Post	(4)	0	8	0	22
(5)	Lambardara	@	- 5	0	0	***
(6)	Patwaria	0		-418		33

The one per cent. allowance made to the zaildars is a deduction from the revenue, and not a cess collected in addition to it.

Amignment of land revenue. Table No. XXX shows the number of villages, parts of villages, and plots, and the area of land of which the revenue is

assigned, the amount of that revenue, the period of assignment, and the number of assignees for each tahsil as the figures stood in 1881-82.

As has already been stated, more than 60 per cent. of the total area of the district is Government waste. Over this large area rove numerous herds of camels and cattle; and from them is collected a grazing tax which is known in the Bar lands of the Punjab as tirni. The lana, a plant from which the coarse barilla known as sajji is obtained, is annually leased out to contractors. Finally, permission is given to applicants to sink wells or cultivate drainage hollows in Government waste, and grants are made to them for that purpose. These are the three sources of the income derived from the Government Bar lands of the Jhang district. The management of this extensive property will now be described. Table No. XVII shows the area and income of Government estates; while Table No. XIX shows the area of land acquired by Government for public purposes. The forests have already been noticed in Chapter IV, p. 122.

The following account of the tirni tax has been collected Tirni arrangements from correspondence in the district office, commencing with the year 1851, and the subject is of such importance in the Jhang district that it is given here in full. The origin of tirni is not traceable farther back than the Afghan rule. Its introduction into every part of the Jhang district was not contemporaneous. When Sayadwala\* was reduced by the Sikhs, the Kharals were called upon to pay a heavy tribute. As they had little or no cultivation the tax was distributed over their cattle. At the time of Kamar Singh this revenue amounted to Rs. 50,000 and in Kharrak Singh's reign to Rs. 35,000. Diwan Sawan Mal introduced a new system. He caused an enumeration of the cattle to be made, and taxed each head by imposing the following rates :- Female camels, Rs. 2; male camels, Re. 1; milch buffaloes, Re. 1; cows, 6 annas. The tax first fixed at Rs. 32,000 was reduced in Sambat 1903 to Rs. 25,000 and subsequently to Rs. 18,000. In Jhang no tirni was levied by the Siál chiefs. It was first imposed by Suján Rai about 1813 A. D. His rates were-camels, female, Re. 1-8; male, Re. 1; cows, 4 annas; female buffaloes, 8 annas; goats and sheep, Re. 1-4 per hundred. The tax was fixed at Rs. 11,900, and 40 camels. When Sawan Mal assumed charge of the Mooltan province, an enumeration was made, the female camel rate raised to Rs. 2, and a re-distribution of the quotas payable by the Sadr tirni-gusars effected. The tax was raised once, but in Sambat 1904 again fell to Rs. 10,000. At annexation the grazing rates were-

Rs. A. P. Rs. A. P. Rs. A. P. Camels, female ... 1 10 0 Cows ... 0 4 0 male ... 1 0 0 Female buffaloes ... 0 10 0 Sheep and goats, Rs. 2 per hundred.

In Shorkot sheep and goats were not taxed. In Uch the tirni had long been leased with the land revenue. In 1904 Sambat the tax in Uch proper was only Rs. 1,820. In Chiniot

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in the Jhang district, and their early history.

<sup>\*</sup> Sayadwala was for a few years after annexation included in the Jhang district.

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Tirni arrangements in the Jhang district, and their early history.

Origin of Sadr tirniguates. tirni was first imposed by Jassa Singh Bhangi, and at first the collections amounted to Rs. 5,000 only. The tax was increased by Sawan Mal to Rs. 10,000. Subsequently reductions were given, and it amounted in Sambat 1903 to Rs. 3,093 only, the tirni in a few villages being included with the land revenue. In Ranjit Singh's time Shorkot belonged to the Kharals. In Kamalia tirni was first levied by Ranjit Singh, and was paid in kind, 1,100 camels. Subsequently a cash assessment of Rs. 23,000 was substituted. Sawan Mal reduced the tax to Rs. 15,000. In Sambat 1904 the tax was only Rs. 11,078. The rates in this tract were higher than elsewhere, and calves were taxed.

The origin of the Sadr tirni-guzars was as follows. During the Afghan rule and the earlier days of the Sikh regime, the population of the district appears to have been divided into bodies owing a kind of feudal allegiance to a number of small chiefs. These chiefs paid a portion of the tirni, but the larger share fell on their followers. When Sawan Mal imposed his tirni tax, it was distributed among these chiefs, each taking the responsibility for his allotment. Actual collections were made by the chief from his adherents. Often there were two Sadr tirni-guzdrs for the body, made up of the clansmen of the chief, and other people his followers. The tax was collected irrespective of boundaries. Changes in these bodies, angi as they were called, by secessions and accessions of graziers, were constant. The cattle of the followers of any Sadr tirni-guzar were not restricted to any particular portion of the Bar. Having paid his quota of the tax, the cattle-owner could graze his cattle not only through the whole of the Jhang Bar, but even in the waste of adjoining districts. Tirni was collected from him wherever he grazed by his own Sadr. tirni-guzar. If he went to another district, his name was transferred to the rolls of that district. Colonel Hamilton in 1851 thought it "impracticable to collect the tax from cattle grazing within defined limits," and "inexpedient to restrict cattle to any particular boundaries," and that "the only feasible system is that which has hitherto prevailed." Before annexation "the tax on "cows and buffaloes was only levied from owners who were strictly " cattle-feeders and not cultivators, and those of all bond fide culti-" vators were exempt. The cattle grazing in the river belas were "taxed, unless they belonged to cultivators. This was only natural, as no land tax was imposed on these lands." The Sadr tirni-guzār got assistance from the local authorities. He was personally responsible for his share in the lease to the Kardar. The grazing rates first fixed for Jhang were-

Camels, male ... 1 8 0 Bar Buffaloes ... 0 10 0 , Female ... 1 0 0 Village buffaloes ... 0 5 0 Goats and sheep, Rs 3-2-0 per hundred.

Cows and young animals were exempted. Only cattle actually grazing in the Bar were taxed. The collections were much lower than they had been in previous years.

Changes in the tiral administration introduced by Colonel Hamilton.

There seems to have been but little change in the tirni administration during the first ten years of our rule. In 1860 Colonel Hamilton introduced a system that practically remained

in force until 1874-75. In his Circular, No. 126 of 14th June, 1860, he briefly noted the causes that rendered a change of system unavoidable. Under the Sikh rule as all waste lands were considered to be the property of Government, the tax was a capitation tax on cattle. The Regular Settlement of 1855-57 defined and demarcated village boundaries, and included in them vast tracts of waste land that had previously been de facto Government property. These lands now belong in full property to the villages, and tirni "now" can be taken only from cattle grazing in lands beyond the village "boundaries." Colonel Hamilton suggested that small rakhs situated between villages should be leased to neighbouring zamíndárs. An enumeration of cattle in the whole Division was to take place on a certain day. The rates fixed by Colonel Hamilton were—

The following animals were free:

A. -Male camels to the 3rd year.

B.—Female do.

C. - Cows and buffaloes do.

D.—Bulls, bullocks, male buffaloes, horses, mares, ponies, mules, and asses.

Only cattle grazing in the Bar were to be taxed, but if one head of cattle of a village or herd was found grazing within the Bar, the whole cattle of the same description in the village or herd became liable to be taxed. All cattle liable to be taxed found in the Bar, or proved to have grazed there without having been entered in the lists and registers, could be charged double, triple, or quadruple rates. Villages were thus assessed yearly, nominally on the basis of a supposed enumeration of their cattle, but really in a haphazard kind of way. The villages in the cultivated portions of the district and the herdsmen and flock-masters of the Bar were arranged in circles, and each circle was placed in charge of a Sudr tirni-guzar. The Sadr tirni-guzar collected from the villages and herds in his circle. The whole of the Government waste lands were undivided, and, the tax paid, the tax-payer might graze his cattle anywhere in the district. The rules entitled him to graze free throughout the Mooltan division. A village had nominally the option of electing to be tirni-guzar, i. e., liable to tirni or not. If the cattle of a village, alleging itself to be non-tirniquadr, were caught grazing in the Bar, not only were the punitive rates above mentioned levied, but the whole cattle of the village were summarily recorded as tirni-guzdr, and were thenceforth charged annually with tirni. The system was one of direct management, and a large staff of Dároghás, Náib-Dároghás, camel sawars and other myrmidons was maintained. Major Hamilton's rules were sanctioned. Mr. Cust, in a memorandum on the subject, noted: "In fact it is but justice to the agriculturist that "a certain amount of taxation should fall on the pastoral tribes " who make use of the vast Government forest ranges to which "they have no title either of property or occupation.

Chapter V. B.

Land and Land Revenue.

Changes in the tirni administration introduced by Colonel Hamilton. Chapter V, B.

Land and Land
Revenue.

Signs of change in 1869. Introduction of the chak system. In 1869 His Honour the Lieutenant-Governor authorised the Financial Commissioner to lease out the grazing, instead of levying the tax by enumeration, in any district in which he was satisfied as to the expediency of the change.

The change was made in 1874-75, and after much discussion and some half measures the introduction of the chak or block system was finally determined upon. It is still in force except in the portion of the district lying in the Sind Sagar Doab. Its main features are these. The Government waste lands of the Bars, the Thal, and the scattered rakhs in the Vichanh have been arranged and divided into chaks. The portion of the Jhang tahsil that lies in the Vichanh, between the Jhelam and Chenab, is one chak, and the portion of the Chiniot tahsil lying on the right bank of the Chenab, another. The remainder of the district lying along the left bank has been cut up into several chaks. The chak in each case consists of the particular block of Bár and the villages lying between it and the river which, if tirni-guzar, are attached to the block. The chak is let out annually to a varying number of contractors called chakdars, for a fixed sum. The villages of the chak are divided into tirni-guzar, and the ghair tirni-guzar, tirni paying and non-tirni paying. The oretically to be tirni paying or not is optional to the villages, but practically it is not. A tirni-quadr village is one in which the whole of the village cattle pay tirni every year, whether they graze in the Bár or not. It is taken for granted that the whole of the cattle graze in the Bar every year. The ghair tirni-guzar villages are those who are not attached to any chak. It is assumed that the cattle of these villages never do graze, and they are therefore exempted from payment of tirni. If they are caught grazing, they become liable to penal The chakdars collect from the tirmi-paying villages at the rates sauctioned. These chakdars are the old Sadr tirni-guzars of the Sikh system under another name, and are generally from year to year the same persons, the most influential zamindárs residing in the neighbourhood of the chak. The sums for which the various chaks were leased during the first few years after the introduction of the system were based on an estimate thus calculated. The cattle of the tirni-guzar villages were enumerated and the income calculated. To this was added the estimated income from the cattle of outsiders grazing in the chak during the year. The total formed the sum, more or less modified to suit particular circumstances, for which the chak was let. These estimates were revised annually until a few years past. They were indicative only, not in any way binding. The chakdars are entitled to collect the authorised fees from the living cattle only, existing in the village. The collections may be above or below the estimate in the case of any given village, but the chakdar has no right to collect anything in excess of the fixed fees. The income from cattle not attached to the chak is made up of charges on cattle belonging to villages attached to other chaks, cattle belonging to other districts, and the cattle belonging to nomad tribes dwelling if possible all the year round in the Bar. The scale of fees was revised in 1875 by Mr. Tolbort, and fixed as below :-

			Rs. A. P.		Ra.	A.	P.
Camels {	Male	110	0 12 0	Cows	0	6	0
Campein	Female	1979	1 2 0	Sheep and goats	0	0	9
Daffalass I	Male	444	0 8 0	Oxen		3	
Buffaloes	Female	710	0 12 0		0	6	0
	Donkeys			Rs. 0 3 0			-

Chapter V, B.

Land and Land Revenue.

Introduction of the chak system.

To allow for the very inferior character of the pasturage, the rates for the Vichanh chak were half these. Bullocks, male buffaloes, horses, donkeys and mules of tirni-quadr villages grazing in their own chak, are exempt. Sheep and goats, not six months old on 1st April, and other cattle not eighteen months old, are exempt for the ensuing financial year.

The tirni collections for the last 20 years are given below:-

			n. i				1	30.	A.	P.	
Camela { M	fale		0			Cows	414	0	6	0	
			1			Sheep and goats	551	0	0	9	
Buffaloes	Inle		0			Oxen	424	0	3	0	
11	emale	B1 B	0	12	0 1	Horses	114	0	6	0	
	Dankeys a	nd .	man l	and a		P. 0 2 0					

Year,	1860:	1561.	1562.	1861.	1864.	1963.	1866.	1867.	1968.	1.860,
Tirpi Sajji Munj	Rs. 71,761 3,835 38	5,546	Rs. 69,605 6,670 50	Ra. 61,598 5,880 53	Ra. 64,375 6,750 102	Ra. 68,791 14,710 55		Ra. 79,268 9,200 290	10,887	Th. 75,232 16,747 800

Year.	1870.	1071.	1872.	1878.	1874.	1675,	1876.	1677.	1878.	1879.
Tirni Bajji Munj	Rs. 87,628 12,586 290	14,630	Ra. 1,15,436 11,950 968	Ra. 1,09,958 18,359 1,187	Inchi.	Ra. 1,01,193 ded in 230	firni Inela	Ra. 79,208 from 18 ded in 1876-77.	74-75 Birni	

At first, grazing fees, tirni, sajji sales, and munj kuna sales were shown separately.

Shortly after the commencement of the Settlement of 1880 the rakh demarcation in the ilàkas of Garh Maharaja and Ahmadpur Garh Maharaja and was revised. These two pargands until 1861 were included in the Muzaffargarh district. The rakhs were originally demarcated in a summary manner without a full khowledge of the facts and without due regard to the interests of the people, by pencil lines drawn on the maps of the Revenue Survey. In not a few instances, wells and cultivated lands were included in the rakh area, and villages were cut off from their grazing grounds by intervening appropriated jangal. The revision of the rakh boundaries was conducted on the same lines in this district as in Muzaffargarh. The result was that the Government waste land situate in the two pargands was cut down to 32,876 acres from 54,857 acres. The rakhs in the two parganàs are, excluding that of Sadkana Mirali, now thirteen in number.

Ahmadpur rakha.

Chapter V, B.

Land and Land Revenue.

The introduction of the Dera Ismail Khan firmi system into the western portion of the district.

The release of so much waste to the zamindars, accompanied by the partition of the Dera Ismail Khan Thal between the zamindars and the Government, and its division into villages held in sole proprietary right by individuals and rakhs the sole property of Government, rendered a change in the tirmi arrangements obtaining in this portion of the district imperative. The Dera Ismail Khán or Sháhpur system of timi has accordingly been introduced. The old system of levying tirni has been abolished. Instead, an assessment has been imposed on the waste lands of each village in their grazing capacity. The Government waste lands of the Thal are now leased annually to lessees who collect grazing fees at a fixed scale from the cattle that graze therein and those only. For the two Thal chaks no separate camel tirni has been imposed. No grazing fee is levied from the cattle of zamindars grazing in the Ahmadpur and Garh Máhárája raklis, but a separate camel tirni is levied from the camels resident and grazing in the ilàka. The right of free grazing in these 13 rakhs has been absolutely surrendered to the zamindárs on account of the extreme proverty of the raiche as grazing grounds, and to prevent the possibility of these rakhs ever being leased to any outsiders. The assessments on the village waste in the villages trans-Jhelam and Jhelam-Chenab amount to Rs. 2,337, being Rs. 615 below the assessment given by the sanctioned rate of Re. 1-12-0 per 100 acres.

The sajji assessment.

The sajji assessment statistics are given below:-

				SETTLEMEN	т от 1856.	SETPLEME	er or 1890.
				Villages.	Jamas.	Villages.	James.
Jhang Shorkot	19 Au		***	9 17	Ra. 99 564	7 10	Rs. 170 655
District	100	in	445	26	663	17	825

The amount in Jhang is trifling. The assessments in Shorkot are much higher; in mauza Bhanga the demand on account of sajji is Rs. 300. The sajji crop depends upon a year of favourable rain-fall; especially rain is needed after the plants have been pruned. The sajji is manufactured by professional sajji-makers, to whom this business is entrusted by the lessee. They get half the produce as their wages. Some other payments are made to the watchman, and to the blacksmith who assists in the process.

Leased wells in the Government waste. The system used for their assessment.

The assessment on the leased darkhwasti, wells and plots situate in the Government wastes of the Thal and Bars, amounts to Rs. 6,310, more or less, on 299 wells or plots. These wells have been sunk at various times since the Regular Settlement, by persons originally Crown tenants under leases from Government. At the Settlement of 1880, following the orders passed in reference to similar Crown tenants in the Montgomery district, all lessees holding on leases granted previously to the issue of the Financial Commissioner's Book Circular VII of 10th March 1868, were recorded as full proprietors of their wells and the lands attached.

These wells are not found scattered here and there everywhere Chapter V. B. throughout the Bar and Thal tracts. They are generally located along the edge of the Bar near the village boundaries, and the Land and Land lessees are usually residents of the nearest village. Those farther away in the interior of the Bar have been constructed more with the object of watering cattle than raising crops. Besides the well lands there are a few plots of bdrani cultivation held on leases, for their assessment, The assessment of these wells and plots has been framed on principles different from those on which lands held in private proprietorship have been assessed. In the case of the latter the area under cultivation and the estimated area annually cultivated by a well have been the two bases of the calculation. In assessing these leased wells, the area of the grant without reference to the area under cultivation has been the point most considered. The lands are grants from Government. When the lease is given the land is waste, and the revenue demand is naturally proportioned to the extent of the grant. Taking two grants equal in area and quality of soil, the original assessments will be equal. If at the expiry of the original leases it is found that the lands of one lease are lying waste and the well out of work, while the other well is prospering and has a large cultivated area attached, this is no reason for diminishing the tax in the one case and raising it in the other. To do so is to put a premium on laziness and to tax energy.

The assessment statistics for each tahsil are given below :-

		Wells.	Total area.	Cultur- able.	Chahi.	Barani.	Fallow.	Total Málguzári area,
Chiniot Jhang Shorkot	***	88 156 46	5,419 7,245 2,169	2,882 4,262 1,577	3,474 2,204 388	284 12 3	548 554 128	5,188 7,032 2,096
District	100	290	14,833	8,721	4,066	299	1,230	14,316

The revenue rates adopted are these :-

-	Tabsil.		Tract.		Minimum per acre.	Average per well.	Maximum per well.
					Annas.	Ra.	Ra.
Chiniot		***	Sándal and Kirána Bára	}	8	25	30
Jhang	049.		Sandal Bar Vichanh Bar	200	6 8	17 25	20 30
Shorkot		825	Sándal Bár Thai	111	6 5	17 16	20 20

The resultant jamas are subjoined :-

		Minimum.	Average,	Maximum.	Old	New.
Chiniot Jhang Shorkot	4 - 1 	Rs. 2,200 2,810 773	Rs. 2,593 2,768 752	Ra. 2,640 3,320 920	Rs. 1,454 2,016 603	Rs. 2,450 2,903 800
District	- 500	5,783	6,113	6,880	4,073	6,153

Leased wells in the Government waste. The system used

Chapter V, B.

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Revenue

Kasht Barani.

In addition to the jamas thus framed, the lessees of all wells have been charged one anna in the rupee as malikana. From this payment the proprietors of wells leased before 1868 are exempt. Cesses are charged as on ordinary land revenue.

Year by year a certain amount of revenue is realised from the lease of lands in the Bar for rain cultivation. The assessment rates charged are:—tobacco, Re. 1-8-0; til, cotton, wheat, thra mira, barley, gram, Re. 1-4-0; bijra, mung-mash, china, moth, jowar, kharbaza, turnips, Re. 1. Collections from 1860 to 1879 are given-below:—

	Year.			1500	1861	1869	1803	1864	1865	1866	1967	1868	1500
Collections		-		401	100	2,004	4,043	647	522	608	2,419	1,104	3,160
2	Year.		3	1670	1871	1879	1973	1874	1875	1876	1577	ists	1879
Collections	**		**	2,620	1,361	6,888	4,153	3,670	2,131	2,570	1,769	8,761	4,000

Applications are made specifying the amount of land and the crop or crops that it is intended to cultivate. The Tahsildar gives permission, and this is subsequently ratified by the Deputy Commissioner. Later on, the area under crop, or that has been sown, is measured up, and the rent is collected in accordance with the above rates from the lessee. The chief crops grown are bijra, jowdr, til, moth, mung-mash, gram, and wheat. Kharif crops predominate. In favourable years splendid bajra and moth or mung crops are grown. Bajra crops in the Kirána Bár are better than elsewhere. This Bar is supposed to be generally more favourable for the production of rain crops than the Sándal Bár. There is no doubt that the rain cultivation in the Bar has materially interfered with the prosperity of the Utar villages on both sides of the river. The tenant of an Utár well is generally more of a berdsman than an agriculturist, and there is nothing he likes better than some ten acres of barani cultivation surrounded with good pasturage and a pool of water near. With his family and cattle he leaves the well, constructs a rough shed, and lives under it in the Bar, or as often as not has no cover except a pilu bush. The seed once sown, he has nothing to do but to trust in Providence : there is no watering or weeding to be done; and there is little that the fatalist zamindar loves better. Camels, horses, and even human beings are yoked to the plough when the early rains are peculiarly favourable; such is the anxiety to get as much seed into the ground as possible where there is a certainty of its germination.

# CHAPTER VI.

#### TOWNS.

At the Census of 1881, all places possessing more than 5,000 inhabitants, all municipalities, and all head-quarters of district and military posts were classed as towns. Under this rule the following places were returned as the towns of the Jhang district:—

Chapter VI.
Towns.
General statistics of towns.

	Talisil.	Town.	Persona.	Males.	Females.
Property of the Parks	Jhang Chiniot Shorkot	Jhang Chimot Shorkot	12,574 9,055 10,731 2,283 2,338	4,964 5,297 1,190	6,005 4,091 5,434 1,093 1,115

The distribution by religion of the population of these towns, and the number of houses in each are shown in Table No. XLIII, while further particulars will be found in the Census Report in Table No. XIX and its appendix and Table No. XX. The remainder of this chapter consists of a detailed description of each town, with a brief notice of its history, the increase and decrease of its population, its commerce, manufactures, municipal government, institutions, and public buildings; and statistics of births and deaths, trade and manufactures, wherever figures are available.

The towns of Jhang and Maghiana are two miles apart, are situated in latitude 31° 16′ 16° and longitude 72° 21′ 45,″ and contain a population of 21,629 souls. They are connected by two well-metalled roads, which start from the east and west ends of Maghiana, cross one another in the middle where the Upper School is situated at an equal distance from either town, and enter Jhang on the west and east, respectively.

The two towns form a single municipality. The Chenáb flows past them at a distance of about three miles to the west, but in the hot weather the Kharora branch fills and runs close past the towns, and with its avenue three miles long, and its handsome masonry bathing gháts, adds a peculiar beauty to the neighbourhood. The country round is well wooded; fine gardens abound; there are good driving roads, well shaded with trees, and passing through rich cultivation; and altogether the towns and their envirous form a beautiful oasis in the howling waste around. An inundation canal leaves the Kharora branch near Jhang, passes round Maghiana, and after a course of five miles empties itself into the same branch.

Jhang and Maghiana. Description. Towns.
Jhang town.

The capital of the Sial State, with many fine and picturesque masonry buildings, Jhang was the principal of the two towns. But some years ago the civil head-quarters were shifted from a position half way between the two towns to the immediate neighbourhood of Maghiana, which has now outgrown its rival in population. The town is traversed by a single main street, running east and west, which is lined on either side with masonry shops built on a uniform plan. The streets and lanes are well paved with brick, and are well drained. The pinnacle of the Nath Sahib-ka-Mandar is a conspicuous object for miles round. The town is surrounded by a mud wall, which is in ruins. The road, which leaves Jhang on the east, is for 500 yards on its way to Maghiana lined by walls, built by Mr. Wakefield to protect it from the shifting sand through which it passes. Outside the walls of the town are the school buildings with a pretty fountain, the dispensary, and the police buildings. The wells, supplied by the Chenab with water filtered through the intervening sand, give water of excellent quality.

Maghiana town.

Once a small village, Maghiana is now a town of some importance. It is built on no regular plan, but is traversed by several broad steets, lined with shops built of masonry, on a uniform pattern. The streets and lanes are well paved with brick, and are drained into a water channel on the west of the town, which empties itself into the Kharora branch of the Chenab. The western side of the town is protected from flood by a high embankment, nearly a mile long. It stopped free circulation of air, and had only a narrow lane behind it. The embankment has been now cut down to the level of the lane, a height quite sufficient for protection from flood, and the whole has been paved and now forms a handsome boulevard, 50 feet broad. In the centre of the town, there is a handsome chauk with a fountain, shaded by a beautiful group of trees, which is used as a vegetable and fruit market.

There are no buildings of any importance in the town. Outside, to the north-east, is a fine masonry tank, in which is an island with a Hindu shrine, shaded by beautiful trees. The municipal garden, well planted with grafted mangoes and other fruit trees, lies round it, and on one side stands the municipal hall and station library. Outside the eastern gate are the Civil hospital and the Middle school, with a handsome fountain. Further to the east are the Tahsíl and Thána, the houses of the Civil officers, the Sessions house, Kutcherry and Treasury, the Fort, a Refuge built after the Mutiny, the Jail, and Police lines. The drinking water, drawn from wells, which get their supply well filtered by the intervening sand from the Chenáb, is excellent. The canal, mentioned above, runs through the public garden, which is thoroughly stocked with fruit trees, vegetables and flowers,

History.

The old town of Jhang the remains of which can still be seen to the west of the present town and close to the shrine of Núr Sháh, is said to have been founded in 1462 by Mal Khán, the ninth in descent from Siál, the ancestor of the Siáls; and was washed away by the river. The word jhang signifies a wood, jhangi being in common local use for a clump of trees. The

present town was founded during the reign of Aurangzeb in 1688, by a sanyasi fakir, Lal Nath, the twelfth in descent from whom, Shamsher Nath, now dwells in the Nath-ka-Mandar, the finest building in the town. The town was besieged and taken by Ranjit Singh in 1805. The present head of the Siáls, Nawáb Muhammad Ismáil Khán, lives in the town.

The town of Maghiana was nothing but a pretty village 20 years ago, and has no history. It was founded by Megha, ancestor of the Maghiana clan of Sials, who emigrated thither from Lohabhir.

The municipality, which includes both the towns of Jhang Taxation and trade. and Maghiana, was first established in 1862. It is of the 2nd Class with the Deputy Commissioner as President, District Superintendent of Police, Civil Surgeon and Assistant Commissioner or Extra Assistant Commissioner as ex-officio members. There are 12 non-official members, who are nominated by Government on the suggestion of the Deputy Commissioner. Table No. XIV shows the income of the municipality for the last five years. It is chiefly derived from octroi levied on the value of goods brought within municipal limits; a coarse kind of cloth (khaddar) made in the district is bought up by middle-men to the yearly value of 8 or 10 lakhs and sold to the powindahs, and the octroi on this, really an export duty, contributes largely to the municipal income. Ghi, wool, khar (impure carbonate of soda and potash), and tamarisk galls are largely exported. So is maddar, bought from the powindahs. Soap also of a superior kind is manufactured and exported; leather-work, including saddlery, and jars for ghi and oil, are in much demand. Brass work, especially imitation Chubb-locks, have quite a Punjab reputation.

The site of Maghiana is very favourable, being on the edge of the high-lands, out of reach of the river floods, and upon the great lines of traffic. Here the route of the Kandahar caravans from Dera Ismáil Khán to Firozpur and Dehli, crosses the military road from Mooltan to Wazirábád. Roads have also been constructed connecting Maghiana with Shahpur in one direction, and Pak Pattan, via Kamalia, in another. Jhang is situated in the low-land. It has no transit, and but little indigenous trade; and now that the Government offices and establishments have been removed to Maghiana, it has ceased to be a place of any importance.

The principal institutions of Jhang and Maghiana are the two Middle schools, one near each town, the Upper school at Adhiwal, half way between the two towns, the charitable dispensary with its branch at Jhang, and the municipal hall, with its readingroom, library, and small museum. There is a sardi and dakbungalow, a small Church with a pretty garden, and the usual Court-houses, Tahsil and Thana. There are many dharmsals, thakurdwaras, shincilas and masjids in both towns, where travellers put up in large numbers. There are nine katras in Maghiana and one in Jhang, where merchants stay and store their goods.

Chapter VI. Towns. History.

Institutions and public buildings.

## Chapter VI, Towns-

Jhang Town. — Population and vital statistics. The population as ascertained at the enumerations of 1868, 1875 and 1881 is shown below:—

Year of census.	Persona.	Malea.	Females.
1868 1875 1881 41	9,134 8,409 9,655	5,215 4,951	9,011 4,091

The details in the margin give the population of suburbs.

It would appear from information suppli-

Town or suburb.	Population.			
	1308.	1881.		
Jiang town Suburbs Civil lines	9,104	1,196 1,196 803		

It would appear from information supplied by the Deputy Commissioner, that no fewer than 71 small scattered hamlets have been excluded from, and three hamlets and the civil lines included within, municipal limits since 1875. The constitution of the population by religion,

and the number of occupied houses, are shown in Table No. XLIII. Details of sex will be found in Table No. XX of the Census Report of 1881.

The population as acertained at the enumerations of 1868, 1875 and 1881 is shown below:—

Maghiana town.-Population and vital statistics.

Limits of summeration.	Year of census.	Persona.	Males,	Females.	
Whole town	( 1808 1801	21,289 12,574	6,166 6,569	5,931 6,005	
Mumbrigal Healts .	1968 1975 1881	10,864 13,818 12,674	-:	- :	

It is difficult to ascertain the precise limits within which

***	Porcu	rios,	
Town or sabarb.	1868.	1881.	
Maghiana town Haanana Minor suburbs	10,525 864 Includ- ed in the town.	11,462 704 408	

the enumerations of 1868 and 1875 were taken; but the details in the margin, which give the population of suburbs, throw some light on the matter. The figures for the population within municipal limits, according to the published tables of the Census of 1868, are taken from the Census of 1875; but it was noted at the

time that their accuracy was in many cases doubtful. The constitution of the population by religion, and the number of occupied houses, are shown in Table No. XLIII. Details of sex will be found in Table No. XX of the Census Report of 1881. The annual birth and death-rates per mille of population since 1868 are given at the top of the next page, the basis of calculation being in every case the figures of the most recent census. The actual number of births and deaths registered during the last five years is shown in Table No. XLIV.

Chiniot town.

The town of Chiniot is situated in latitude 31° 43′ 32″ and longitude 73° 0′ 59,″ and contains a population of 10,731 inhabitants. It stands under and on the slope of low rocky hills about two miles

	Year.		Persons.	***	1	- 1		
				ersons. Males.		Persons.	Malea.	Females.
1800 1870 1871 1872 1872 1873 1874 1875 1876 1877 1878	100 244 100 100 100 10	200 200 200 200 200 200 200 200 200 200	25 20 21 23 36 45 28 30 30 30 26 38	26 19 12 11 21 24 16 15 15 14 20	24 21 9 12 15 20 12 14 15 11	13 30 16 18 15 21 20 30 26 24 37 27	18 29 16 13 15 23 22 25 24 36 27 17	12 30 17 18 16 19 19 29 28 23 40 28 28

Chpter VI.

Maghiána Town.

Population and
vital statistica.

from the left bank of the Chenab, and in hot weather the heat thrown out by them is almost intolerable. The town is divided into three parts, and is picturesquely grouped on and below the hills. One part lies close under the hill, another towards the tahsil, and the third to the west. This last, though included in the town, is always spoken of as the Thattah, and is more a separate collection of houses, round the tomb of Pir Shekh Ismail, than an integral part of the town. Most of the houses are of excellent brick-work : and the solid well-built aspect of the town is striking. The most conspicuous building is the Sháhi Masjid built by Nawab Sádúlla Khán Tahím, physician and minister of Sháh Jahán. There is also a khángáh sacred to the memory of Sháh Burhán, a saint revered alike by Hindús and Musalmáns. It has a good marketplace attached to it. There are some good streets which are well paved, and many of the houses are lofty and commodious, especially those belonging to the Khoja traders, who have large business dealings with Amritsar, Calcutta, Bombay and Karáchí. natural drainage is good, but the municipality is poor, and sanitary arrangements are not as good as they ought to be. drinking-water, derived from wells getting their supply from the Chenáb, is exceedingly good. The country is well wooded, and the hills to the westward, with Koh Kirana in the distance, and the Chenáb flowing through a rocky defile in the foreground, give great beauty to the place. There is a beautiful garden, well stocked with fruit trees, near the tahsil and rest-house.

Chiniot is doubtless a town of considerable antiquity; but little is known about its origin and history. It is said to have been founded by a king's daughter, Chandan, sister of a chief called Machhi Khan, who was accustomed to hunt in man's attire. While on one of her expeditions, she was so charmed with the site—hill, river and plain—that she ordered a town to be built on the spot. From her name the town was first called Chandniot. In old deeds the name is always spelled thus. The town suffered severely from

Chiniot Town.

Towns. Chiniot Town.

the Durani inroads, and from constant sieges during the last half of the 18th century, that witnessed the struggles between the Sials, Bhangi Sirdars and the Sukarchakia Misl, headed by Maban Singh and his son the Maharaja; and again in 1848 from the occupation of Narayan Singh; but is now rapidly recovering. The most prosperous days of Chiniot were during the reign of Shah Jahan, when Nawab Sadulla Khan Tahim was the governor. It was he who built the Shahi Masjid, an exceedingly handsome edifice of hewn stone obtained from the hills near Chiniot. The pillars that support the western portion of the mosque underneath the domes are singularly chaste and elegant in design. Some repairs and restorations have been recently made that, to say the least, are in very doubtful taste, and are certainly utterly out of harmony with the character of the building. Another vestige of the Tahims' magnificence is to be found in the remains of an elephant house. Now, the Tahims are represented by a Deputy Inspector of Police, a couple of patwaris, and one or two other families resident at Chiniot. The decay of families that years ago were rulers in the land is in this district most remarkable. A large colony of Khojas resides here. The townspeople have an unenviable character for forgery, litigiousness, false evidence, and anonymous petitioning. Any old deed that comes out of Chiniot should be looked upon with the greatest suspicion.

The municipality was constituted in 1862, and is one of the 3rd class. The Deputy Commissioner is President, the Tahsildár is Vice-President, and there are eight nominated members. Table No. XLV shows the income of the municipality for the last five years. It is derived from octroi, levied at rates varying from Re. 1-9 to Rs. 3-2 per cent, on the value of almost all goods brought within municipal limits. Chiniot is celebrated for its wood-carving and masonry. Masons from Chiniot are said to have been employed in building the Táj Mahal. The architect of the Golden Temple at Amritsar was a Chiniot mason, and the head mason now attached to the building is another. Of late years the Khojas have begun to export large quantities of bones, horns and hides to Calcutta. Other articles of export are ghi, coarse cloth, cotton and wool. There is a small transit trade in the hands of powindah

merchants, and a little traffic with the salt-mines.

There is a good charitable dispensary, a school-house, and a large number of dharmsáls and masjids, where travellers put up. A large sarái has lately been dismantled, as it was found that no one used it. There is a good rest-house standing in a pretty garden.

The population as ascertained at the enumerations of 1868, 1875 and 1881, is shown below:—

Year of consus.	Persons.	Males.	Females.
1868 1875 1881	11,477 11,999 10,781	6,106 5,297	5,771

The constitution of the population by religion, and the number of occupied houses, are shown in Table No. XLIII. Details of sex

will be found in Table No. XX of the Census Report of 1881. The annual birth and death-rates per mille of population since 1868 are given below, the basis of calculation being in every case the figures of the most recent census:—

Towns.
Chiniot Town.

			Bn	TH-RAT	es.	DE	ATH-RAT	ES.
	Ye	â.F.	Persons.	Males.	Females.	Persons.	Males,	Females.
1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1879 1881 Averag	1 man		27 32 29 30 43 48 39 39 38 32 34 37	22 23 12 14 20 22 21 19 19 16 16 19 18	23 41 17 17 17 23 26 19 20 19 16 18 18 18	16 27 23 22 26 22 25 32 26 29 27 27 26 24 26	14 23 23 19 23 20 20 20 26 29 23 27 25 23 27 25 23 27 23 23 23 23 23 24 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	18 31 24 25 28 25 30 39 36 28 32 30 27 26 29

The actual number of births and deaths, registered during

the last five years, is shown in Table No. XLIV.

Though a town of historical renown (see Chapter II), and still the head-quarters of the tahsil, Shorkot is now little more than a village. It contains 2,283 inhabitants, and stands about four miles from the left bank of the Chenáb, underneath the lofty mound or Bhír on which the ancient town was built. It is surrounded by fine groves of date palms, the fruit of which is excellent and of various kinds. Many of the buildings are lofty, but most of them are in a state of ruin; a fine bàzàr with a gate at each end, and lined with shops built on a uniform plan, exists; but few of the shops are tenanted. There is a good dispensary, a school-house and garden, a rest-house with a good garden, and the tahsil and police buildings. A large hollow to the east of the town, and from which the materials of the Bhír were evidently taken, becomes a fine lake in the rains, but adds much to the unhealthiness of the town.

The Municipal Committee consists of four nominated members, the Deputy Commissioner and Tahsíldár; but is recommended for reduction. Its income is shown in Table No. XLV. The trade

of the town is insignificant.

The identification of Shorkot with one of the towns of the Malli, and with the town of Po-lo-fa-to, visited by Hwen Thsang, has been already alluded to. The present town stands below a huge mound of ruins about 100 feet in height, and almost rectangular in shape, surrounded with a wall of large-sized bricks, and measures about 2,000 feet by 1,000 in size. Burnes, who visited the place, describes it as "a mound of earth, surrounded by a brick wall, and so high as to be seen for a circuit of six or eight miles." The same traveller was informed by the people that

Shorket Town

Chapter VI.
Towns.
Shorket Town.

their town had been destroyed by some king from the westward, about 1,300 years ago. General Cunningham received the same tradition about its destruction, which he attributes to the 'White Huns,' whose date he fixes in the sixth century of our era. The foundation of the city is attributed to a fabulous Rája Shor, of whom nothing is known but the name. From the evidence of coins found upon the spot, General Cunningham infers that the town was occupied certainly as early as the Greek kings of Ariána and the Punjab, who followed at no long interval after Alexander; and that it flourished under the Indo-Scythian dynasties, down to A.D. 250, or perhaps later. But, as the Hindu coins are confined to the Bráhmin Kings of Kábul and the Punjab, he concludes that for some centuries the town was either deserted or much decayed, and that it was either re-occupied or restored in the tenth century by one of these Bráhmin kings.

Mr. Steedman writes :-

"To an observer possessing no special antiquarian knowledge, the mound appears to have been the citadel of the old town. The abruptness with which the mound rises from the ground, and the existence of remains of what appear to have been bastion towers at intervals round the mound, support this view. The old town must have sloped away from the fort northwards."

The name of the town is attributed to various sources; to a fabulous Rája Shor, to the saline character of the ground, to the quarrelsome character of the inhabitants, and to a ficrce soldier of Islam, named Táj-ul-dín Shori. Taj-ul-dín came to the Panjáb in the van of the Muhammadan invasion as a follower of Pír Ghází, who fell a martyr on the field of battle in combat with the infidels who then held Shorkot. The town was taken and derived its present name from Táj-úl-dín's surname. Pír Ghází's tomb is still to be seen close by Shorkot in a wood of aged farásh and jal trees.

The population, as ascertained at the enumerations of 1868, 1875 and 1881, is shown below:—

Year		Persons,	Males.	Females.		
868	251	+	4-4	3,156	1,756	1,400
875 881	210	401	***	2,478 2,283	1,190	1,093

The constitution of the population by religion, and the number of occupied houses, are shown in Table No. XLIII. Details of sex will be found in Table No. XX of the Census Report of 1881.

Atmadpor Town.

Ahmadpur is a small town in the Shorkot tahsil, situated about a mile from the right bank of the Chenáb, and is 55 miles from Jhang. It was founded about 200 years ago by Nusrat Siál, who named it after his grandson Ahmad. The town lies low, and is surrounded in the rainy season by large sheets of water, and the health of the inhabitants suffers in consequence. The houses are irregular, and built chiefly of sun-dried bricks. There is one bàcar, which has lately been paved with brick. It has a population of 2,338

inhabitants, most of them agriculturists; but some of the Hindús are very wealthy, and trade with Bombay, Calcutta and Karáchi, especially in wheat. There is a good dispensary and a good school.

Chapter VI.

Towns.

Ahmadpur Town.

The Municipal Committee consists of six nominated members, the Tahsíldár and the Deputy Commissioner. Its income is shown in Table No. XLV. It has been recommended for reduction.

The population, as ascertained at the enumerations of 1868, 1875 and 1881, is shown below:—

Year	e of e	ensus.		Persons.	Males.	Females.
1868		1000		3,436 2,146	1,827	1,600
1875	100	911	111	2,338	1,223	1,115

The constitution of the population by religion, and the number of occupied houses, are shown in Table No. XLIII. Details of sexwill be found in Table No. XX of the Census Report of 1881.



#### STATISTICAL TABLES

APPENDED TO THE

# GAZETTEER

OF THE

# JHANG DISTRICT.

(INDEX ON REVERSE).

"ARYA PRESS," LAHORE.

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Table No. II, showing DEVELOPMENT.

1	1 2		4	1	0	7
Details	1800-04.	1858-59.	1805-04.	1568-00.	1973-74.	1578-79.
Population	17. 14	41		347,043		395,296
Cultivated acres		7 in 1		241,325	264,866	411,549
Irrigated acres	44	14 6	11	174,743	100,078	204,081
Ditto (from Government works)	23		100	1 4	Sec. 11.	
Assensed Land Revenue, rupees	1			2,51,237	9,94,600	2,97,010
Revenue from land, rupees	**		100	2,72,522	4,10,839	2,79,117
Gross revenue, rupecs	1 4	4 6		4,07,885	4,80,138	4,93,888
Number of kine	-0.0		The same	140,917	258,837	194,950
sa sheep and goats		Tie.	- 5.	202,214	259,833	121,560
31 camels	14.	100	1. 11	17,853	10,918	0,300
Miles of metalled reads	1			} man {	9	
unmetalled reads	-7.4		- 10	1- "1	864	934
. Railways		100	114	- 4		
Police staff	100	10	495	475	504	508
Prisoners convicted	587	662	401	1,505	1,001	P00
Civil suits, number	2,665	1,001	2,410	8,450	4,151	5,066
-value in rupos	78,128	50,745	1,16,712	1,24,200	1,84,220	1,80,400
Municipalities,—number		- 1-			0	4
,. ~income in rupces	-			18,947	27,764	81,843
Dispensurlas,—number of				1.	4	6
patients				4,356	29,477	61,672
Schools,—number of	35	10.00	07	26	.49	41.
n —acholara		***	1,007	1,513	2,439	2,552

Norg. -These figures are taken from Tables Nos. 1, 111, VIII, XI, XV, XXI, XLI, XLV, L, LIX, and LXI of the Administration Report.

Table No. III, showing RAINFALL.

1		2	.3	4	5.	6	7	8	0	10	11	3.2	13	14	15	16	17	19	19
						A	K DIN A	L BA	ENPA	Lit IN	THEFT	E0 01	F AN	INCH	14			-	. 1
Rain-gauge station.		1896-67.	1507-08.	1808-00.	15-00-70.	1570-7L	1877-72.	1872-70.	1073-54.	1574-73.	1877-716	1674.77.	LETT-PS.	1875-70,	be70-sn.	15×0×51	1551-82,	1882-83.	Aver
Dang		72	161	145	107	04	58	706	170	70	04	76	160	124	42	48	94	146	10
Chialot	de.	127	197	126	112	90	153	101	245	97	117	159	343	91	GE.	74	140	204	10
Storket		25	70	79	183	43	46	07	146	91	56	68	1.96	196	50	719	133	1.00	- 9

Nors. - These figures are taken from the weekly rainfall statements published in the Punjub Gazette.

#### Table No. IIIA, showing RAINFALL at head-quarters.

1	2	5	1		2	3
	ARSUAL A	AKERTORS:	A CHARLES	1	ASSUAL A	VERAGER.
MONTHS.	No. of rainy days in each month— 1867 to 1876.	Rainfall in tenths of an inch in each month— 1867 to 1881.	MONTHS.	7	No. of ratny days to each month— 1867 to 1876.	Rainfall in tenths of an inch in each month— lief to list.
January Pobruary March April May June July August	1 2 2 1 1 4 8	5 12 5 5 7 82 80	October November December 1st October to 1st January 1st January to 1st April 1st April to 1st October		1 1 1 1 5 11 17	7  1 3 4 19 78 100

Norz.—These figures are taken from Table No. XXIV of the Revenue Report, and from page St of the Familie Report.

## Table No. IIIB, showing RAINFALL at Tahsil Stations.

1		g	3	4	5					
	4年	AVERAGE FALL IN TENTHS OF AN INCH, FROM 1873-74 TO 1877-78.								
TARBIL STATIONS.		Let October to 1st January.	lat January to lat April.	1st April to 1st October.	Whole year.					
Chiniot	10.7	7	-94	121	152					
Hhorkot	il a	5	10	75	90					

Nove. -These figures are taken from pages 36, 37 of the Famine Report.

## Table No. V, showing the DISTRIBUTION of POPULATION.

-11		1				2	3	4	5
						District.	Tahsil. Jhang.	Talisti. Chiniot.	Tabell, Shorket,
	Total square miles Cultivated square mil Culturable square mil Square miles under cr	0.0	· ·	- 10015	**	0,007° 640 3,998	2,365 263 1,560	2,972 194 1,483	1,22 15 87
	Total population Urban population Eural population	olu fu mul				395,296 36,981 356,315	204 171,719 21,629 150,084	132 138,341 10,731	05,84 4,62
-	Total population per Rural population per	quare mile equare mile		, c:	17	49 63	73 64	117,510 60 55	90,71
villages	Over 18,000 scals 5,000 to 10,000 3,000 to 5,000 2,000 to 2,000	**	**	**	**	2 1 3 12	1 1		-
Towns &	1,000 to 2,000	11		21	-:-	02 141 550	23 52 251	10 50 190	10
-	Total	Towns	*40	9.4	*	761	833	254	17
	Occupied nouses	Villagea	127	H A)	2	4,505 62,429	2,710 30,613	1,088 15,416	16,40
	Unaccapted houses	Towns Villages	11		- 11	2,974 17,810	1,528 8,894	851 3,57a	5,54
	Resident families	Towns Villagos	22	11	13	8,948 76,121	5,260 30,229	2,482 23,460	1,18

Norm.—These figures are taken from Tables Nos. I and XVIII of the Census of 1881, except the cultivated, culturable and crop areas, which are taken from Tables Nos. I and XLIV of the Administration Report.

\*\*Including 160 square miles of river bed.\*\*

#### Table No. VI, showing MIGRATION.

	2	1	1	A	15	T	. 8 -
	- 3	1	MALES P			nos or læ	
Districts.	Incolgrants.	Enigrants.	Immigrants.	Enskgraats.	Jhang.	Chindet.	Sherkot.
Lahore Gujranwala Shahpur Mooltan Mostgonery Muzaffargarh Dera Jemail Khan	416 8,817 0,549 1,478 3,836 405 1,244	1,500 2,616 6,906 10,944 4,419 3,509 2,520	589 502 468 506 592 509 589	635 547 540 614 594 602 688	144 516 2,005 205 2,173 69 575	101 5,311 2,977 44 267 9 29	81 190 227 1,199 176 387 640

Nove.-These figures are taken from Table No. XI of the Census Report of 1881.

#### Table No. VII, showing RELIGION and SEX.

Part of the last	1			2	8	1	5	6	7	8
				10.5	District.	. 1		Tausins.		
				Регноци.	Males.	Females.	Jhang.	Chiniot.	Shorkot.	Villages.
Persons	-	-	44	395,296	-		171,710	125,241	95,342	355,315
Males Females	48	**		**	214,592	180,914	98,798 78,931	59,378	52,727 42,615	195,109
Hindus		1		64,809 3,477	34,696 1,994	30,196 1,483	22,168 2,417	15,389	17,355	48,680 2,828
Jains Buddhists	100	-11	11	4	2	2	2	4	-	4
Zoroastrians Musalmans	10	11	12	225,910 11	177,680	149,210	187,121	112,173	77,616	206,846
Christians Others and unsp	pecified	44	44		.,		11	2		
European & Eur	esian Chris	stians	19	11	9	2	- 5	2	4	**
Sunnia Shinhs Wahabis	**	ä.,	**	315,002 11,535 8	171,323 6,323 5	143,679 5,512 3	192,602 4,519	110,761 1,410 2	71,639 5,906 6	295,351 11,428 8

Nove.—These figures are taken from Tables Nos. III, IIIA, IIIB of the Census of 1881.

#### Table No. VIII, showing LANGUAGES.

	1				2	3.	4	5
						Distri	BUTION BY T	ABSILS.
	Langua	igu.			District.	Jhang.	Chiniot.	Shorket.
Hindustani Bagri Panjabi	17	1	Page	# IP.	319 42 894,587	245 40 171,171	34 2 128,187	40
Jatki Pashtu Pahari	= = 1			11	86 250 8	37 191 8 3	7	96,179 49 61
Kashmiri Stadhi Persian English			1	17	11 0 10		91	9 1

Norm .- These figures are taken from Table No. IX of the Census Report for 1861.

#### Table No. IX, showing MAJOR CASTES and TRIBES.

1	*	3		5	G.	7	8	0	10
Serial No.		Tor	TAL NUMBE	Des.		Males, by	hrimos,	DE V	Proper-
In Census Table No. VIIIA	Caste or triba.	Persons.	Malos.	Females.	Hindu.	Sikh.	Jain.	Musalman	tion per mille of popula- tion.
18 1 2 48 77 37 37 24 21 25 16 10 44 4 4 22 28 42 22 28 42 22 28 42 28 42 28 42 28 42 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	Total population Billoch Jat Eniguit Enokhar Aruin Sshekh Mughal Brahtman Saiyad Nai Hariman Saiyad Nai Khari Arora Khojah Chuhra Mochil Julaha Machili Mallah Lubae Tarkhan Kumbar Charbon Quasab	305,296 15,998 45,242 89,641 11,259 6,977 2,122 5,119 6,944 6,907 7,741 15,196 45,941 4,182 24,176 9,517 5,695 2,692 4,972	214,882 7,967 20,709 60,408 60,408 1,748 2,802 2,808 2,802 1,748 20,703 11,154 7,677 11,154 1,677 11,154 1,627 4,125 4,1	180,014 7,129 21,445 40,148 5,905 2,856 2,470 1,876 2,427 2,877 2,780 2,433 2,035	34,606 192 61 2,667 2 7,759 22,135	1,904 112 46 4 3 100 1,431 4		177,000 2,007 26,045 49,245 6,134 8,278 2,558 1,776 1,607 1,607 1,607 11,014 7,736 13,042 5,125 1,436	1,000 28 122 227 25 15 14 8 15 25 25 25 25 25 25 25 25 25 2

Norn.-These figures are taken from Table No. VIIIA of the Census of 1881.

Table No. IXA, showing MINOR CASTES and TRIBES.

	100000 2.2023				
1	8		8	4	5
Serial No. in Census Table No. VIIIA.	Casta or tribe.		Persons.	Males.	Females
6	Pathas		1,710	1,680	680
12	Awan ,,	ed.	1,496	sie	680
50	Sunar		1,697	900	795
2.5	Faqir, infecellaneous & unsp	existed	1,618	919	100
40	Jogi		573	_ 294	279
41	Bharaf ,	-	1,505	829	676
70	Ulama	-	706	379	327

Nors. - These figures are taken from Table No. VIIIA of the Census of 1881.

#### Table No. X, showing CIVIL CONDITION.

T	3		3	4	- 0	Ġ	7	5
15.79	TA TO A TA CO		Sixe	MAN.	MARI	erico.	Wine	wid.
	DETAILS.		Mulea.	Females.	Males.	Fetnales.	Males.	Females.
Actual figures for religiona,	All religions Hindus Sikhs Jains Buddhists Musalmans Christians	- 2	129,981 20,463 1,144 1 106,986 5	81,877 12,012 625 1 68,788	74,722 12,443 744 1 61,510	77,556 18,670 672 1 63,711	0,670 1,760 106 17,760	01,681 4,714 186 16,781
Distribution of every 10,000 south of each	All agen 0-10 19-15 15-20 20-26 25-30 20-49 40-30 50-60 Over 60	10 10 10 10 10 10 10 10 10 10 10 10 10 1	8,064 9,999 9,746 8,408 6,185 4,098 2,251 1,979 1,149 1,124	4,498 9,406 8,574 8,176 714 216 102 63 68 89	0,485 8 251 1,659 8,786 5,711 7,904 7,854 7,519 6,249	4,503 48 1,418 6,710 0,022 0,247 8,800 7,820 5,404 2,588	451 8 83 79 191 545 767 1,000 9,600	1,199 1 8 94 259 457 1,000 2,506 4,528 7,223

Nove.-These figures are taken from Table No. VI of the Census Report.

#### Table No. XI, showing BIRTHS and DEATHS.

1	2	3	4	5	ű		5	9	10
	TOTAL B	ertes rec	ISTERED.	TOTAL D	EATES REC	estened,	Total	i. Deaths 1	recod
YEARS.	Males.	Females.	Persons.	Males.	Females.	Persons.	Cholera.	Small- pex.	Pever.
1877 1878 1879 1880	6,0dn 6,65s	4,020 5,712	16,005 12,870	2,526 2,398 2,628 3,744 5,470	1,017 1,002 1,839 2,792 3,000	4,443 4,500 4,467, 6,506 6,470	949	102 567 654 104 60	2,826 2,660 2,063 3,569 3,796

Norm.—These figures are taken from Tables Nos. I, II, VIII, VIII, and IX of the Sanitary Report.

#### Table No. XI A, showing MONTHLY DEATHS from ALL CAUSES.

1	2	3	4	5	0	7
Mosth.	1877.	1676.	1879.	1680.	1661.	Total.
January February March April May June July August Esptember October November December	460 427 428 873 614 888 614 288 264 288 447	453 - 319 - 292 - 295 - 295 - 295 - 295 - 295 - 296 - 816 - 655 - 708	006 619 613 859 825 975 977 857 857 207 183 200 323	455 610 694 448 585 886 841 057 492 450 543 684	684 596 544 524 564 451 451 467 468 574 681 667	2,849 2,689 2,671 1,849 2,980 2,083 1,786 1,776 1,849 2,759 2,709
Total	4,443	1,300	4,467	6,505	6,470	26,186

Nors. -These figures are taken from Table No. III of the Sanitary Report.

# Table No. XI B, showing MONTHLY DEATHS from FEVER.

	1	7	9	3		3 -	6	1 7
M	OSTIT.		1877,	1878.	1879,	1880.	1881.	Total.
January February March April May June July August September October November December		THE STATE STATE OF	823 304 259 216 200 263 200 161 180 200 282 287	263 197 159 131 161 189 144 112 168 196 283	538 254 250 168 159 130 304 112 104 85 153 201	957 566 320 288 908 812 256 590 975 275 279 524 596	371 342 282 282 382 238 249 193 266 376 404 401	1,529 1,452 1,330 1,006 1,180 1,131 953 870 862 1,008 1,448 1,652
All Contract	Total	9.8	2,696	2,400	2,068	3,589	9,796	14,664

Nove. - These figures are taken from Table No. IX of the Sanitary Report.

#### Table No. XII, showing INFIRMITIES.

2	3	- 4	0	6	7	8 .	9
Ins	ANE.	Br	DED.	DEAF AN	on Duana.	Lau	TEM.
Males.	Females,	Males.	Females.	Males.	Females,	Males.	Females
291 46 294 294	154 189 15	1,252 1,087 191 5 1,006	1,305 1,120 189 1 1,115	336 305 51 - 8	191 170 24	37 34 7	14 12 2
	Males. Males. 1992 281 46 2	Issane, Males, Females, 1932 154 281 189 46 15	Taxane, Br.  Males. Females, Males.  1022 1.54 1.252 281 120 1.087 46 15 191 2 5	Insane   Biling   Males   Females	DEAP AND   DEAP AND	Insane   Briefs   Dear and Dume.	Insane   Berns   Dear and Dema   Lar

Norz. - These figures are taken from Tables Nos. XIV to XVII of the Census of 1881.

#### Table No. XIII, showing EDUCATION.

	_					W-CARRY			
1	2	8	4	5	L	- 2	2	1 4	5
	Ma	LE.	Fra	ALIEN.		MA	Line,	Fem	ALES.
All religions ( Total Hindus Sikhs Jajas Buddhista	100 100 100 100 100 100 100 100 100 100	14,086 10,570 11,616 429	Cnder in-	Cun read	Musalmans Christians Tahaii Jhang Chiniot	1,373 2,000 750 841	Onn resid 5,882 7,200 8,773 8,913	Cinter in-	Can read

Norg. -Those figures are taken from Table No. XIII of the Consus of 1881.

# Table No. XIV, showing detail of SURVEYED and ASSESSED AREA.

1		8	4	5	0	1	B	9	10	n	12
	2	Cour	TVATED.			Unculy	VATED.			1. 3	1222
1955-00	By Gov- ernment works.	By pri- vale in- dividu-	gated.	Total cul- tivated,	Graz- ing lands.	Culture able,	Un- cultur- able.	Total unculti- valed.	Total area assessed.	Gross sector ment.	Unappropriate cultura b where, the pa
1978-74 1978-79 Tabell details for 1878-79-		174,74 190,67 204,001	74,286 207,408	204,366	1,804,481 1,006,672 1,520,884	20710 - 41000	\$4.1-76AUXELIE	COL. DEDUCTS. P. ANNI. I	8,660,867 8,649,551 3,649,647	204,500	2,108,490 2,305,490 2,305,490
Tabett Jhang Chinist Sharket	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	80,000 64,70 60,25	76,798 50,201 60,411	167,884 133,970 119,745	682,500 800,310 247,378	509,196 965,469 515,380	224,004	1,387,582 1,177,148 673,523	1,555,166 1,891,113 700,266	197,823 74,515 94,672	1,096,515 994,930 357,785

Nork.—These figures are taken from Table No. VIII of the Administration Report, except the last column, which is

Table No. XV, showing TENURES held direct from Government as they stood in 1878-79.

	12	OHEOF.	of mes seen for a series,		0,000 1000,000 1000,000	509'09	189,000	840,055
	10	TL SHOW	Yo. of holdersor	41	150	1 2	:	2
	9	TAREL	No. of villages.	at at	w : 25	100	1	E
	100		No. of entailer.	-24	2 : 2 S	: 89	=	1
	12	Canstor.	int sams section	1,708	12,419 23,104 116,704 118,704	lot'is	690,844	18 4000
	25	ATTENT OF	No. of holders or shareholders.	0	9,236 4,6331	ing.	1	18.18
	Ξ.	TAIL	No. of villages.	6	100 000	: \$	1	-
	20	_	No. of estates.	Ħ	20 20 20	: 3	:	100
	0	Taman, Juana.	Offices area in	888,4	11,940 128,904 238,730	3,890	010,123	1,465,850
	17	mann. J	No. of holderser exablederate	10	\$ 55 E	\$ E.S	:	
	-	TA	No. of villages.	io	2: 88	201 (0) 201		44
	10		No. of catalon.	- 16	2 : 88 8	71 00 72	1 3	CHARLEST STREET
	12	sicr.	Green area in	10,110	30,298 34,301 406,559 808,833	1,890	2,194,583	9,645,608 485
1	4		an erablicit to .o.X. erabbiderada	25	925 900 900 901 901 901 901 901	8 5	;	92,119
	65	WHOLE	No. of villagen.	A	80 PH 15	- 여 전	:	1,314 1,908 99,119
	TH.		No. of relation.	1	82 28 22 28	# 6	#	*11.
			NATURE OF TENGRE.	A.—Estatum not believe villaon communia, and parise in communia.  IP.—Paring 1,000 ru. {	Proprintally cultivaries visited construction.  C.—Passisted Tracking the revenue and holding the land in encuron of the second of the base of the second of	F.—Grasher of Government and Intitury ander can previous class, and paping I.—Province direct to Government in the position of the Proprietors, including individuals remarked for survive or albarycies, but II.—Lama	L.—Government tractives or manishined	Torak

Nort. - Those figures are taken from Table No. XXXIII of the Revenue Report for 1878-79.

Table No. XVI, showing TENURES not held direct from Government as they stood in 1878-79.

1	100		-	st.	NO.	l=	100	0
	DISTRIC	DISTRICT JUANO.	Tansu	Tansu, Juano,	TABEL	TABBLE CRISTOT.	Tanste	Tanett. Snongor.
NATURE OF TENURE.	No. of holdings.	Acres of Joint bard	So. of holdings.	Acres of bird bad	No. of holdings.	lo sersA. blod basi	No. of beldings.	lo seroA head head
A -TENANTS WITH RIGHT OF OCCUPANOY.				1				
(o) Paying a stated (t) Paying 3 produce and more	196	32,103	I	11,017	107	11,011	2	10,01
-	180	18,508	10	4,619	00	9,409	60	4,404
II. Proping word	514	3,800	210	1,1981	153	1,216	E	1,010
(c) Paying a fixed quantity of grain for their heldings, with or without a further sash contribution.	19	, 106	п	E	90	7-		1
Total paying rent in stnd	973	175,03	170	16,903	300	16,706	E	
GRAND TOTAL Of TURBING WITH FLETING OF GOODPERSY	92.0	178,00	T.	Te,068	308	16,796	200	15,878
C.—TESANTSATWILL								
A. Popping in made	202	1,558	108	000	100	1,000	:	1
M. Peysing in f (o) 4 preduce and more	25,300	526,310	12,000	130,001	280.83	121,234	7,255	150,985
Noted (b) Less than 4 produce	1,000	100 mg	200	25,462	1000	48,333	96	6,419
ORARD TOTAL OF TENTRES	200 201 201 201	062,650	17 m	291,625	(p) (m) (m) (m)	191,000	li-e	174,675
North of Blatte floring and tologon forces the No. W. W. W.	The state of	Same and						1

Norm.-These figures are taken from Table No. XXXIV of the Revenue Beport.

#### Table No. XVII, showing GOVERNMENT LANDS.

1	2	3	4 -	5	6	7	6	9
	-		deres hat		Ri	madalay a	crea.	yearly lsf7-78
	No. of ostalon.	Fotal seres,	Cultivated.	Unculta-	Under Forest De- partment.	Under other Depart- ments.	Under Deputy Commis- stoner.	Average y income, is to 1881-42.
Whole District Tahail Jhung Chiniot Bhurkot	38 18 19 1	2,327,784 1,020,526 917,718 389,495	9,157 2,171 6,606 775	14,784 5,999 8,160 5,825	87,450 87,450	::	2,216,843 1,012,896 820,495 883,492	84,233

Nors. -Those figures are taken from Table No. 1X of the Revenue Report of 1881-82.

# Table No. XIX, showing LAND ACQUIRED by GOVERNMENT.

Purpose for which acquired,	Acres acquired.	Compensation paid, in supres.	Reduction of reve- use, in repose.
Roads Canals State Railways	109	4,117	101
Guarantosd Ítaliways Miscullansous	464	5,216	155
Total	600	9, 223	274

Norz.—Those figures are taken from Table No. XI of the Revenue Report.

#### Table No. XX, showing ACRES UNDER CROPS.

0.1	1	a.	8	4	-5	6	7	K	0	10	II.	1.0	18	3.6	15	1/5
Trans.		Total,	Blor.	Whenl	Jawar.		Makal	Jou.	Grain.	Noth.	Poppy.	Tobasco.	Cotton,	Induco.	Sugarcane	Vegetables.
1874-76 1875-76 1876-77 1877-78 1878-70 1879-80		261,986 282,061 272,618 282,488 277,284 361,410 827,811 127,445 222,788	160 1663 761 127 105 101 140 141 176	153,989 149,852 144,780 161,169 150,567 140,077 170,667 175,760	27,678 29,102 25,303 29,450 12,304 10,143 88,365 39,468 29,361	2,735 2,905 5,905 636 3,961 1,436 1,647 2,148	2,100 1,901 1,703 8,217 1,907 2,215 8,260 2,264 2,721	7,583 8,000 7,590 6,003 9,900 4,911 6,242 6,145 4,240	4,207 4,208 5,102 12,090 10,000 8,841 14,188 13,717 18,206	879 2,800 2,103 419 700 307 407 440 1,620	45 36 37 37 25 12 18 14	074 1,113 1,028 1,176 1,900 210 094 1,061 938	16,978 14,529 15,945 16,981 17,677 28,710 36,292 28,488 28,781	541618	200 200 223	28,70% 26,052 05,759 23,963 24,912 00,153 27,995 18,510 17,122
TABAL.				T.	AMUTE AV	1000,617	e Polici	ING FIFE	THARM,	rmost 3	801-18	70 188	1-82.			
Chiniot.	1	100,671 84,664 86,014	94 41.	70,100 44,717 47,119	16,171 6,525 6,500	102 1,406 143	17 2,276	1,944 2,442 1,522	4,164 2,346 6,420	270 284 27	10 Per 11	415 314 160	19,175 7,212 5,200		87 156 7	5,576 9,280 6,814
TOTAL		200,000	320	105,946	29,559	1,000	2,994	5,899	12,932	675	16	889	25,790	11-	250	19,700

Table No. XXI, showing RENT RATES and AVERAGE YIELD.

	1	1				2		8
	Nature	of an	т.		wellte	it for the	of land various stand in	Average produc per sere as esti mated in 1881-81
Rice		- 5	Maximum		17 . 11	Λ 8	Т.	Bis. 1 965
Indigo	7		Minimum Manfalian	10	T		0	1 200
Catton			21 Іоналовій Можіспація		18	B.		de .
La Company of the		119	Milmination	73	14	8	- 4	219
Sugar		41	Maximum Minimum		45 10	10	0	-
Oplum		- 8	Maximum		300	0	0	
Tobacco		6	Mindmin.	15	18	0 5	0 4	3 9
a sometime			BEIRLIMARIN	93	13	0	0	440
Wheat	Irrigated	1-3	The Conference was		11	0	0 4	1
manual and	Untrigated	1.50	Mantenana.	5.0	30	10	8	7.85
	(Tertiental)	0	Marchanis		6	5	4	
inferior grains		3	Minimum		3 7	0	0.	
Watering	Unirrigated	1-3	Self-transferred to the self-t		4	10	8	470
	Irrigated	5	Maximum		9	0	0	,
Fil seeds	Unirrigated		The section reads	-	7 6	8	0	352
		11.1	Minimum	2	4	10	8	1
ibres	Irrigated	1 3	Difference and the second	9	last -	10	-	1
50000	Unirrigated	. 5	Maximum			31		
harris .			Minimum .		11	-	-	
inten lurior					-	E		472
laira		234	34		11	37		594
OW ME.		25	C.		1	000	11	100
va e shice		3			20	- 17	30	947
		-	4.6	1	14	- 12		10

Norg.—These figures are taken from Table No. XLVI of the Administration Report.

Table No. XXII, showing NUMBER of STOCK.

-		-				2	1	4	5	6	7-
		Kinn or	STOCK!			Waotz	DESTRICT	FOR THE	TARRILE P	on the ye	un 1878-09
						1868-00.	3573-74.	1678-79.	Jhing.	Chintot,	Shorker.
Cows and 1	miliocica	9.			-	140,817	258,337	124,950	93,250	86,540	41.100
Horses	**			**	115	2,001	1,600	1,782	750	5011	85,460
I'maine	4.1	.6.	***	- 11		487	517	230	100	000	542
Declaring		4.6		-		94	4,080		100	75	61
Shorp and	coats		.,			100		8,997	1,447	942	STR
Pige	4,1			**		202,214	200,303	W11.000	94,000	60,000	182,00
Jumida				- 65	**	**	- 11	**	++		
Durts	**	11	**	17	111	17,850	190918	9,009	4,152	2,795	2,452
	**	ele	-57		100	6	0	3		2	
Toughs.			++	10		37,065	85,991	41,731	17,885	31,002	
Couts				0.0		17	103	60	54	17	11,020

Nove,—These figures are taken from Table No. XLV of the Administration Report.

# Table No. XXIII, showing OCCUPATIONS of MALES.

ī	7				1			-	-
-		13	4	- 5	1	7	-3	4	5
Number.	Nature of occupations.	Male	oralous 16 of syn.	yours	Sumber.	Nature of occupations,	Males	abaye 15 of agr.	years
_		Towns.	VIII- lages.	Total.	Wan	visitore of dentifications.	Towns.	VII- Inges.	Total.
12 13 14 16	Total population Occupation openined Agricultural, whether simple or combined. Civil Administration Army Religion Barbers Other professions Money-landaus, general tra- dors, pollars, see Dealers in crate and four — Cari-grindura, parchors, de. Confectioners, green gropous, de. Carriers and leadman Landowners Tenants Joint ciltivators	11,460 10,502 1,502 1,502 928 341 126 94 498 \$16 24 200 104 520 830 22	117,000 100,024 57,250 1,193 1,925 1,925 1,621 1,621 1,621 118 2,27 10,251 2,201 10,251 2,201 710	120,500 117,426 58,942 1,810 34 1,628 431 2,022 5,186 5,186 41,0 2,679 15,901 15,901 15,901 751	18	Agricultural labourers Pastural Caoks and other servanta Water-carriers Sweepers and acaveragers Workers in reed, atta, leaves, straw, &c. Workers in leather Boot-makers Workers in wool and pasium  a silk  workers and daslers in gold and silver, word Potriers Workers and daslers in gold and silver, Workers in iren tieneral labourers Buggars, faqtrs, and the like	17 70 200 70 24 177 46 85 4 82 1,829 150 871 74 644 927	1,188 7,420 881 384 400 2,000 19 5,000 1,178 2,408 078 2,408 078 2,810 7,005	1,156 7,364 1,117 454 454 5,516 2,516 2,578 2,578 2,578 2,573 2,573 2,573 2,673 2,673 2,673 2,673 2,673

Nozz,—These figures are taken from Table No. XII A of the Cenaus Report of 1881.

# Table No. XXIV, showing MANUFACTURES.

1	8	1	1	4	-1		6	7		6	1 0	200	10	11.
	Sille.	Cos	ton.	Wool.	-	Other falls rice.	Paper	Wox	d.	Ireg	Bra	[	Build-	Dyeing and manufactur- ing of dyes,
Number of mills and large factories Number of private learns or small works. Number of workman ( Male	W.		5,144	47	10	2	ŏ		780	.4	63	127	80	910
in large works. C Femala Number of we kine in small works or independent artisms. Value of plant in large works		1	7,600		14	77.2	64	2,	- 1		25	56	199	520
Estimated annual out-turn of all works in rupees.			0,200	1,00	19	60.9	5,189	5,11,	dat	1,00,0	00 20,	00	48,000	1,40,100
	12		10			14	1	D		147	17	1	- 18	10
	Longh	ion.	Potto conno and glose	Mile.	lo,	press g and uning.	Pashi an Slux	4	5.7	vEm.	Gold, ell ver, and joweller;		Other manufac- pures,	Total.
Number of sills and large factories Number of private looms or small works. Number of workings of Male	1,0	162		,501		0/8				1	470	-	1,496	16,178
Number of workmen in small works or independent artisms. Value of about in bares works	Ø <sub>a</sub> T	16	9,7	81		125	-				850		1,503	22,328
I street annual out-turn of all stocks in repeat.	11,18,9	00	2,75,3	100	-	5,000			110	298	11,63,600	1	2,83,450	57,38, 003

#### Table No. XXV, showing RIVER TRAFFIC.

1		2			1			4	5	8
	Tay	ADZ.						Awrage d Fayage	eration of in days.	
From		To		PRINCIPAL	Менсиамо	ise carrier.		Summer, or floods.	Winter or low water.	Dis- tance in miles.
Aknur	-	Mithankot	201	Grain of all kind country cloth, sil			ghi,	20	50	430
Wasirabad	**	Jhang	11	Wheat, gor, ghi, kupas, horas, bal				10	35	193-
Ramnagar		Do.		Ditto	dilta	ditto		8	10	100
Pindi Bhattian		Do		Ditto	ditto	ditto		6	11	70
Wastrabad		Multan		Ditto	ditto	ditto		20	50	910
Rammagar		Do.	~	Ditta	ditto	ditto	**	18	173 B.	sto
Pindi Bhattian	++1	Do.	.,	Ditto	ditto	ditto		14	20	250
Wazirabad	7	Mithankot	-	Ditta	dirto	ditto		25	40	850
Ramnagar	**	Do.		Ditto	disto	Ø16fm		.02	- 56	110
Pindi Bhattian		Do.	11	Tritto	dista	ditto		18	35	200-
Multan	'n,	Waxirabad	_	Iron, escounuta, da	tes, black p	repper, mang, e		80	4.5	250
Do.		Rammagar	100	Ditto	disto	ditto	4	24.	40	210
Do.		Pindi Bhattian		Ditto	ditto	ditto	1,	21	0.5	190 +
Mithankot	-	Wazirabad		Ditto	ditto	ditto		50	Eà	810-
Do.		Romnagar	12	Ditto	ditto	4818200		45	52	220-
Do.	Sec.	Pindi Blattian	93	Ditto	ditto	ditto		40	4.5	200
Jhelam		Multan	40	Grain and off-seeds	- 4 4	+1 +1 >0	1	20	35	000
Do.		Sukkur		Dilto	1	4 4	***	45	60	100-
Do.	11	Entri	er.	ditto				60	99	1.0
1							0		1	

# Table No. XXVI, showing RETAIL PRICES.

10		Saft (Labord),	5		10	11	6h	-	7	10	10 1	0 15	9 Ne	10 10	10 8	9	10 12	10 4	10 12	10 12	-	11 12	12	100
			कां व	1	in:	pa.	zie .	100	10	22	12	30	112	-	4	00.	1					-	-	
1		Tobacco.	S. Ch.	-	40	4	175	ig.	4	85	. 99	*	4		4	7	9	•	sp.	-	40	*	+	60
-				9	49	-00	7	77	12	91	2	27	22		-	19		-	-	-	4	4		
14		Firewood.	B. Ch.	910	1-15	1000	100	910	501	100	1100	200	198	- 100 - 100	50	98	540	Deg .	#G.	98	180	88	180	300
-		-	Ch.	180	aru	89	7	-0	20	180	200	19	*	-	0.	45	10	=	20	7		F=	2-	3.0
2		Chi (cow'a).	9	84	91	CO CO	91	-	-	-	=	н	-	н	1	-	-	0	-	**	-	-	P	-
			d	100	66	1=	B	9	jym	-3	en en	+0	13	22	10	E	:	;	64	71	4 4	*	*	10
120		Fugur (reduct).	90	21	φi	51	es	19%	09	(8)	Ø8	34	59	eH.	578	*ox	36 3		zý.	21	- Spire	69	ÇH	64
11	TOTAL	Cotton. (chance).	9	71	100	fin.		1170	r	*	=	<b>E</b>	=	명	16	-	- DR		10	10	10	00	45	œ
	THE P		nd	59	94	-	64	-04	(E) E	(2.6)	84	=	1218	48	DK.	09.	E9	<b>国性</b>	(FF)	24	Q14	0	<b>C</b> #	804
10	TASKS	Pointons.	é .			-	1	-	-	*	9.		-	(M)	21	25	10	01	700	. 01	10	16-	*	07
-	STREET AND CHITAKNS PER RUPIE.		Ch.	-		1	-	-	10	-	0.	0		-	:	-		-		_	*	3	100	-
0	SEEDS .	Und dal.	100	27	g	8	12	37	10	E E	0	2	11	316	8	3.6	110	S	8	14	9	**	E	91
10	NUMBER OF	Bice (fine).	d	130	22	13	9	gs.	10	10	D	(40)	i-	7	:	20)	;	2	:	:	100	:	1	10/5
	NESO	Bice	od 1	q	40	10	9	45	100	*	*	=	-	40	47)	9	62	()-	9	9	40	NG-	43	9
l=		Dajra.	6	0	-	101	100	-	:	9 10		- Char	-	-	1,79	: F=	9 9	;	-	0	4	1	1	
-			SS	in .	90	01	103		<b>a</b>	10 118	10	15 15	22	100	<b>9</b>	Des Ton	33		## P	3.0	24 24	14	9	*
9		Jawar.	ei i	8	8		6	51	- -	(20)	10	22		51			98	100 m	100	61	13	-	91	500
		100	d	1	*	:		:		:	:	1	1	2 2	1	1	1	:	:	7	;		:	
9		Indian corn.	œ	8 0	8 0	-1	:			B	:	:	4	51	S	8	8	67	98	31	=	18	8	5
-		Gram.	- O-	mil Ham	+	57	80	12	9	100	125	2		4	3	1	100	li.		40	100	30	:	00
		-	u)	1 - 93	25 28	00	0 00	No.	- T	9	28	II.	1 15	8 10	54	- Ti	7	#I	2	11	21	7	-	81
-0		Barloy.	S. Ch.	11 11	. 01	9	8	19	1 1	1 05	-	\$ 1 ST	10 11	17		200		(8-m. 400 ii	- 6:	100	128	-	10	
-	1	-	G.	0%	01	12	O.	2	8		ju.	2	-	99		1;	96	500	46	20	**	-	120	925
01	4	Witness.	wi .	2	195	P.2	130	fr.	2	14	22	17	regit area	H	8% 79	9	ā	98	E-	10	E	11	13	3.00
1	1	YEAR.		1961-02	1362-401	1362-64	1304-05	1912-191	1866-67	1.417-68	1808-09	1869-70	15-0-21	1471.72	Tend-Ta	1671-74	50-F-61	1870.78	Tr-078	1. 22-1141	10 数点像是	1879-80	1830-81	_

Norm.—The figures for the first ten years are taken from a stalement published by Government (Punjab Government No. 202 S. of 19th August 1872), and represent the average prices sail year. The figures for the last ten years are taken from Table No. XLVII of the Admitshiration Represent prices as they steed on the lat January of each year.

#### Table No. XXVII, showing PRICE of LABOUR.

1	8 7 8	4	0	8	7	8	D	10	11	19	15
	WAGES OF LA	noun per	DAY.	Caute P	ER DAY,	CAMBLE	fer day	Dose, a	TE PER	Волта р	TER DAY.
YEAR.	Whithest.	Unak		Highest	Lowent	III.choos	Tarina	EF Last word		owest Highest I	
	Highest Lowest	Highest.	Lowest	and Month		realitance	The section?	un effinenser	Lowest	Highout	Laberent
1868-80 1873-74 1878-79 1870-80 1880-81	Ha.A.P.  0 5 0 0 8 0 0 5 0 0 8 0 0 5 0 0 8 0 0 6 0 0 8 0 0 6 0 0 8 0 0 6 0	the second	- 100	1 1 0 0 1 0 0 1 0 0	0 12 0		6 0 9 6 0 9 6 0 9 6 0	3 3 12 0 3 12 0 3 12 0	A. P. LE 0 LE 0 LE 0 LE 0 LE 0 LE 0 LE 0 LE 0	2 8 0 2 8 0 3 8 0	LP. 8 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Nors,-These figures are taken from Table No. XLVIII of the Administration Report.

#### Table No. XXVIII, showing REVENUE COLLECTED.

	1		2	3	-4	D.	-6	7.	8	9
5 .	YEAR.		Fixed Land Rovenue.	Fluctuating and Miscellansons	Tribute.	Local rates.		BARL	Slamps,	Total Collec-
				Land Revenue.			Spirits.	Drugs.		tions.
1888-69 1809-79 1070-71 1871-72 1079-73 1671-74 1874-75 1675-78 1876-77 1877-78 1879-90 1890-91 1891-82		20 20 20 20 20 20 20 20 20 20 20 20 20 2	\$,78,527 8,71,907 2,60,950 2,70,266 2,70,266 2,70,05 2,82,171 2,83,171 2,85,609 2,70,117 2,70,117 2,70,108 2,66,027 3,14,688	92,608 92,518 1,07,259 1,43,402 1,39,117 1,39,584 1,99,590 1,00,000 95,406 1,01,008 97,210 1,63,602 1,29,503	The Complete of the Complete o	15,418 18,428 97,075 25,541 25,419 24,611 29,629 81,818 34,618 34,618	1,844 5,255 5,182 7,862 2,784 2,048 5,210 5,145 5,227 8,280 2,684 2,684 5,150	1,981 2,079 2,451 7,461 2,460 2,181 7,462 0,200 3,765 4,271 5,000 9,000 9,756 2,818	36, 876 87, 976 92, 396 23, 117 37, 364 87, 366 88, 871 44, 363 45, 164 46, 868 47, 914 36, 668 55, 668 56, 001	4,05,342 4,11,118 4,17,629 4,08,474 4,75,400 4,75,705 4,75,205 4,08,851 4,08,851 4,08,851 4,08,950 4,86,860 4,66,860 5,28,70 5,28,70 5,28,70 5,24,70 5,24,70 5,24,70 5,24,70 5,24,70 5,24,70 6,41,866

Norm.—These figures are taken from Table No. XLIV of the Revenue Report. The following revenue is excluded:—"Canal, Forests, Castons and Salt, Assessed Taxes, Past, Castons"

## Table No. XXIX, showing REVENUE DERIVED from LAND.

1	2	3	- 4	-	6	7	8	0	10	11	13	18
	- (5)	uningel-		FLUCT	TATI300	Reves	UIE.	M	INCRELLAN	morro I	Levenc	Wa
	Povensus (de-	7 4	Murtal	of wanted brought	- Color	ande,	ating.	(Average	g dues.	Proces Proces		
YEAR.	Total S	trusting as	go e		nd can baga a.	Hing an	fluctua	mers- calific.	smalls.	wood from		Total missilmest land sevenan.
	Pixed land in the state of the	Plantum Lementa (stulised	Heverning Lands,	Remember Implement	Water ad	Finction fine	Total f	55		10 E	Balll	dan be
Daired Favores	<u>-</u>	540	22	220	-		ga	100	The second	Sule Take	Bag	1
Total of 5 years— leases to 1972-13 Total of 5 years—	19,74,937	5,96,907	21,559	19,276	9.0	- 14	40,405	B,48,994	Sal Balle	36,964	800,00	5,40,408
1875-74 to 1877-75 1875-79 1879-50	14,40,719 1,61,617 2,60,634	5,49,067 1,00,040 94,695	D. Beleit	6,700	15	4	51,182 11,640	91,417	9,41,614 99,501	Egg W.	04	39,306
Issost Issist Tabell Totals for 5 years—	2,81,606 2,14,775	1,02,007	1,942	6,187 6,187 7,871	1	8,042 8,407	9,901 87,000 48,813	**	69,309 69,475 66,603	6,264 5,762 6.6cc		BELEVI
Talent Jhang	0,20,175	2,44,706		4,580		1,244	55,196		1,44,079			
- Chinart - Steward	0,041,227 4,341,237	1,04,070	2.690	24,466	=	80-5 9,800	50,403 60,164		1,66,907	11,225	150	1,00,000 1,71,775 \$1,700

Table No. XXX, showing ASSIGNED LAND REVENUE.

1		2		3 -	4	1	5	6	7	1	i	9		10	1.	11
				T	FEAL J	LBEA,	and R	EVENUE	ASSIDE	D.				Per	Tob	OF NT.
TAHSIL.		Whol	le Pitta	gen. I	bractle of V	mal pa Unipa	EF-Ža	P	lock.		To	dal.		In ye	rpeta	ity.
		Area.	Reve	nue. A	ren.	Reve	B 08.	Area.	Revenue	An	ea.,	Reven	ue,	Area.	Bay	renus
Jhang		8,129	9	156	9,471	3	,074	2,433	3,427	190	003	7.6	Linear I	7,324	-	2,133
Chiniot	2.0	**			576		384	2,311	3,19	2,1	687	3,4	576	921		604
Shorket	**	1,181	-	-	1,277		521	1,008	1,763	B,	681	24	550	0,502	1	600
Total Bistrict		9,310	11,	558 11	,124	2,	979	8,747	6,300	100,	161	13,	100	14,077		3,440
		12	18	14	1	15	16	17	18	10	20	21	29	23	24	25
			P	TRIOD O	r Ann	io»ne	81.—C	bartado	l <sub>a</sub>			Num	nen :	OF Assi	036	8-
TARSIL		For an	u tijn.	Per s	are di a one.		medicide i	uninde F Bitab ment.		ling ra of mant			a thuis	Ance.		
		Anna	Revenius,	Area.	Remaine		Aron.	Revenue.	Area	Revenue.	In purpotality.	For one life.	For more lives one.	During undintenance	Fendling orders.	TOTAL
Thang		7,280	8,864	856	1	195	2,337	1,172	1,000	554.	101	144	5	17	7	27
Iblatot borket	*	1,244	2,370	- 46-			512	512	1	-	200	85		21		5
CONTRACTOR OF THE PROPERTY OF	"	511	1,487	1.0	*		247	183	1,181	997	28	89	13	20	1	10
To al District	122	9,035	7,301	856	-	25	8,096	1,600	5,817	951	168	232	3	60	8	47

Norm.—These figures are taken from Tuble No. XII of the Bovenne Report for 1881-82.

Table No. XXXI, showing BALANCES, REMISSIONS and TAKAVI.

*	-	Malanen et	lead resease	Reductions of fixed demand	
TEAL	2,	Fixed revenue.	Fluctuation and miscel- laneous revenue.	on account of bad seasons, deterioration, &c., in repeat.	Takavi advances in rupeca.
18/05-69 18/05-70 18/		1,704 11,48 5,617 8,525 4,720 6,402 8,935 6,811 0,014 8,907 7,570 15,999 9,980	295 295 295 190 900 9.852 6,159 4,734	177 71 75 949 625 73 105 131 652 148 830 21	4,280 835 1,480 6,600 9,005 8,775 2,514 944

Nors. - These figures are taken from Tables Nos. I, II, III, and XVI of the Revenus Report,

Table No. XXXII, showing SALES and MORTGAGES of LAND.

1	2	9	4	5	0	7.	8	9	10
*			SALES	or Lan	3.		Monr	GAGES OF	LAND.
YEAR	4	griculturi	ints.	Non	Agricult	urlete.	A	priculturi	sts.
	No. of	Arra of land in acres.	Purchase money.	No, of cases.	Aren of land in acrus.	Purchase tusting.	No. of cases.	Area of land in acres.	Mortgage money.
Dornier Parenes.									
Total of 6 years—1855-69 to 1878-71	716	12,157	1,39,878	-19			842	24,583	1,70,963
Potal of 4 years—1874-75 to 1877-78	278	4,543	09,996	.98	1,100	25,280	517	8,251	1,09,402
1878-70 . 1679-80 . 1880-81 . 1881-82 .	107 299 48 130	1,304 2,514 748 1,688	24,048 59,604 15,872 40,502	16 98 98 110	170 245 583 1,557	5,893 7,536 9,782 24,084	205 156 49 299	8,301 2,636 770 4,404	55,000 30,089 12,699 63,650
FARRIL TOTALS FOR S VEARS— 1877-78 TO 1881-82. Chim lot Sharkot	912 123 203	2,854 2,445 2,800	79,751 21,983 #1,800	90 50 53	1,154 874 870	28,556 10,921 15,560	401 224 171	4.504 5,010 3,003	91,677 26,612 66,704
	11	12	18	14	15	1.6	17	18	19
	Monroe	or L	and Char		Ranus	CPTIONS OF	MORTON	en Lara	
TEAR.	No	a-Agricul	Ymrinta.		gritalius	rista.	39	m-Agrica	tturists.
4 344357	No. of cases.	Area of land in acres.	Mortgage money.	No. of cases.	Area of land in meres.	Mertgure money.	No. of	Area of hand in acres.	
District Figures. Total of 0 years—1808-09 to 1873-74	-		**	n	-11	**	-11	-	
Total of 4 years-1874-75 to 1877-78	232	4,966	68,163	98	1,100	12,152	165	1,726	3,08
1878-70 1870-80 1880-81 1881-82	87 942 93 1,20	3,014	10,924 58,249 5,678 27,195	20 14 15 100	394	9,218	11 21		3,29
Tamari Totals FOR 3 TRANS- 1877-78 TO 1881-82.			,,	7-4 90		15,450 9,777	5	0	5,60

Nors.—There figures are taken from Tables Nos. XXXV and XXXV B of the Revenue Report. No details for transfers by agriculturists and others, and no figures for redemption, are available before 1874-76. The figures for earlier years include off sales and mortgages.

Table No. XXXIII, showing SALE of STAMPS and REGISTRATION of DEEDS.

1	2	5	4	. 0	6	7	8	0	10	27	12	13
	INCO	ME FRO	M SALI	OF	OPE	RATION	S OF T	HE REG	ISTRATIC	M DEI	PARTME	NE.
	Receipte h	н гогроз.	Net mo		No.	of donla	regulater	nd.	Fallen		more a pro-	
YEAR.	Judicial.	Non-judicial.	Judielal.	Non-judichal.	Touching im- movable pri- party.	Touching merallepro- party.	Money obliga- tions.	Total of all kinds.	Introvable property.	Morable pro-	Money obliga- tions.	Total value of all kinds.
1872.78 1876.79 1870.80 1890.81 1681.62	15,308 10,100 42,074 36,117 40,251	9,952 11,514 14,539 10,939 15,780	54,854 92,000 97,649 93,668 93,668	9,572 11,705 13,859 16,181 15,003	622 658 750 1,000 808	105 56 2 R 35	22 34 31 34 34 35	767 703 852 1,002 1,073		8,966 2,906 180 1,900 5,000	18,261 17,111 12,468 18,095 12,241	2,51,791 2,67,467 2,49,624 2,66,724 3,45,009

Norm These Sgures are taken from Appendix A of the Stamp and Tables Nos. II and III of the Registration Reports

#### Table No. XXXIIIA, showing REGISTRATION.

- 1	2	3	4	- 5	6	7
		Nu	mber of Bo	edr register	wi.	
		1980-81.	-		1881-82	-
	Conspail-	Optional	Total.	Compul-	Optional.	Total
Registrar Jhang	800	167	725	6. 439	152	500
Chinjet	- 田工氏	02 83	200 208	148 207	57 66	97
Total of district	887	845	1,202	800	275	1,07

Nors.—These figures are taken from Table No. I of the Registration Report.

# Table No. XXXIV, showing LICENSE TAX COLLECTIONS.

1	1	2	ß.	4	5	0	#	- 18	9	30	11	12	19	14	15
YEAR.			Nумпа Ста	n or I	PCERS	es day	Cha	_	s Calend		HADE.	_	Total number of		Number of villages In which licenses
		Rs. 500	2 Tts. 200	Rs. 150	4 Rs. 100	1 Bs. 74	2 Rs. 50	Ba. 2	Re. 10	Rs. 5	2 Ta. 9	Be. 1	licenses.		granted.
1879-90 1800-81 1881-82 Tahali detalla f	1 1 1 1 1	20.00	1111	11111	9 8 9	4 7 14 34	29 27 37 37 39	118 116 201 230	41.2 415 968 2,045	1,050	8,001	8,558 7,948		20,200 28,552 18,445 19,630	204 203
Chinist	1000	-	=	==	1	10 to	13 10 16	81 54 85	528 230 235	17.7	2.0	511	634 867 996	9,008 5,090 5,735	104 116 71

#### Table No. XXXV, showing EXCISE STATISTICS.

3	2	3	4	5	6	7	R	0	10	11	12	13	1.4	15
	F	ERMEN	TED LI	QUORS	L .		INTO	CLCATI	NG D	RUGS.		EXCI	SE BEY FROM	ENÚE
YEAR	dis-	No. of		Сомнин	aption is Conn.	No. of Lines		Conm	mplio	a (in mo)		Fig.		Lan.
YEAR	Number central tillories,	Couplity	Furn. pean	Rum,	Country spirits.	Oplan.	Other draps,	Opinm.	Carran	Blaudt.	Other drugs,	mented liquors.	Druge.	Total.
1877-76 1876-79 1879-80 1880-91 1881-82	44 10 10 AP 10	22 80 18 90 24	4 N B 4 6	39 36 36 50 50	945 766 970 1,100 930	89 89 89 89 82 82	313 313 313 313 313 313	74 84 9 61 71	12 1	92 95 70 40 44	35 43	2,104 2,664 2,893 8,080 8,160	4,268 8,000 8,000 9,786 2,448	6,972 5,004 5,019 6,606 5,908
Total	10 2	104 21	90 4	217 63	4,751 950	160	160	41 8	4	201 40	78 16	14.091 2,818	15,831 3,166	6,731

North.-These figures are taken from Tables Non, I, II, VIII, IX, X, of the Excise Report.

# Table No. XXXVI, showing DISTRICT FUNDS.

1	草	- 3	1 4	5	6	1	5	9	10	111
	Arrai	al (norme ti	ь гирыя.	-,		Anassi s	syraditure	in repeat.	-	1
7EAR. 874-75 575-76 575-76 577-78 577-78 578-79 578-79 578-79	Provincial Provincial Patron	Niesellane ous.	51,555 51,555 51,551 25,575 25,575 25,576 26,576 40,770	1,600 1,625 1,395 2,000 2,100 2,100 2,118 2,120	District and 200 to 200	6,731 6,885 6,871 6,136 6,230 7,152 7,002 4,878	1,880 2,570 8,078 2,722 2,722 0,108 2,102 2,003	1,786 1,070 000 1,411 1,450 1,664 1,468	9,971 10,106 12,000 7,607 6,629 6,676 6,676	25,800 25,800 25,800 26,707 22,504 22,565 28,746

org. —Thus figures are taken from Appendices A and B to the Annual Review of District Fund operations.

# Table No. XXXVII, showing GOVERNMENT and AIDED SCHOOLS.

-						-											-	, D	OHO	OI	1934
1		2	0	4	3	1	17	9	0	10	11	112	13	14	15.	16	17	28	19	20	1 21
			m	G16 S	CHO	OL	9.		2011	DDL	seil	oons		-	F	RIM	ART	SCI	HOOLS,		_
		_		11.19.7	i.	Vi	BOKA-		En	ilian,		VES	RACULAR		Ereis	Juli.		1	VERNACE	T.A.T.	_
Tran.	-		WPIR-	di	ded		OIL.		meng. Mak	A	inleut.	Dove	ramens.		teris-	110	del	Gor	comment.	16	led.
		Meltreols.	Scholars,	Selveots.	Scholare,	Schoole.	Ne holars,	Scanoola.	Scholara.	Schools.	Scholars.	Seltenie.	Setsolarn.	Schwele,	Scholars.	Sehnola.	Scholarn,	Schools.	Sebolars.	Schoola.	Scholars.
				=9					-		FOR	-	-	163	90	55	95	M.	Z.	- W	76
1877-78 1878-72 1870-70 1850-81 1851-51	22.22	1 1 1 1 1 1	16 16 16 19 21	0.0000	24144	111111	1,5151	1 2 2 2	121 112 100 167 127	:::::	10071	6445151	791 688 91 44 40	0 2 2	518 531 531 536	11811		23 24 26 26 25 26	1,031 1,026 1,232 1,264		150
									Figu	nes	FOR	GIRL.	9.					_	-	-	
1877-78 1878-79 1878-50 1878-50 1898-91 1891-90	12.021	**	11111	31321		21111	311111	12 12 12 12	110001	11111	100000	25555	10.0	13810	11111		111111111111111111111111111111111111111	10 5 8 8 8 8	207 272 271 271 275 263	11.13.5	1 1000

N. R.—Since 1870-89, in the case of both Government and Aided Schools, those achelars only who have completed the Middle School course are shown in the returns as astending High Schools, and those only who have our pated the Primary School course are shown as attending Middle Schools. Provious to that year, keys attending the trurbulate transport of the Education Department, whilst in Institutions under District Officers, boys it attending to the the Department were included in the districtions under District Officers, boys Institutions, a High School included the Middle and Primary Departments attached to it; and a Middle Schools, the classed as Aided Schools, in the returns for 1870-80 and subsequent years they have been shown as Government Schools, the classed as Aided Schools, the best of English Schools, whether Government or Aided, has we've formerly included amongst Vermacular Schools, are now returned as English Schools. Have the returns a before 1870-80 do not affect the means of making a satisfactory

indigenous Schools and Jell Schools are not included in those returns.

Table No. XXXVIII, showing the working of DISPENSARIES.

1	1 9	1 3	1 4	1 5	1 0	1 7	1 8	1 0	T	1	1 -5		. / / -	_		-
	-	-	1 .		1 "	1	-	9	10	11	12	13	14	15	1 10	17
Name of	喜点	_					N traction	m er :	PATTER	TO THE	LATED.					
Dispensary.	lane of I	_		Men.					Women	No.			-	Milder	m.	
	Clans	1877.	1878.	1879.	1880.	1881.	1877.	1878,	1579.	1880.	1881.	1877.	1878.	1879.	1850.	1881.
Jhang	с. п.		5,146	7,100	0,944	9,502		1,801	2,301	2,567	2,631		2,003	1,588	2,040	2,469
Do. branch	and		4,679	4,001	6,120	6,613	16	1,600	1,365	1,761	2,022		1,762	1,450	1,550	1,875
Sherket	2nd	**	5,169	4,752	5,000	6,515		1,921	2,541	1,587	0,287		1,243	1,781	1,666	1,523
Chiniot	1st	11	0,867	5,109	6,122	6,870		3,000	2,760	2,589	2,900		2,212	1.919	1,029	1,087
Ahmadpur	204		0,204	3,616	4,804	5,110	14	0,060	1,507	1,401	2,230		2,785	2,461	1,680	1,833
Kot Isa Shah	2nd	P.B.	5,496	3,600	5,279	3,152		2,781	2,141	8,417	3,702		2,797	2,401	2,784	2,654
Total	- 11	2.2	34,074	29,519	37,957	30,421		14,854	18,657	13,622	15,768		12,744	12,225	-	12,346
		18	19	407	49	22										-
-	- 4	-10	-	- 10	21	22	思は	26	20	26	27	25	22	30	31	32
Name of Dispunsory.	Chantel Dispera		Tiet	at Patt	leads.			I'm-slo	mr Pat	lenta.		Æ	lepout!	hure de	Mape	u.
	and the second	less.	1878.	1879.	1500.	1891.	1877.	1974.	1979.	1880,	1881.	1877.	1878.	1870,	1880.	1881.
Jhang	C.H.	5	11,952	11,322	14,431	14,661		562	D.II	498	478		3,200	3,781	8,214	20 4 5 25
Do. branch	and		8,040	6,821	9,470	16,500						-1	1,032	1,243		2,452
Shorket	rnd		3,536	9,101	19,240	10,326				744	237	**	1,184	1,242	794	500
Chinlot	Int	. 44 1	12,241	-	10,630	_		353	194	214	251		2,240		1,254	1,345
Alimatpur	2n/1		19,000			9,160				36	198	48	761	2,248	2,371	2,650
Ket be Shah	2nd	-			11,480					96	168	7.9	930	749	1,071	1,198
	-				-	-				1715	100	**	684	625	805	774
Total	24	100	时,明治	54,401	11,275	17,836		915	5335	938	1,350		0.155	9,888	9,008	9.016

Nove.—These figures are taken from Tubles Nes. II, IV, and V of the Dispensiry Report.

Table No. XXXIX, showing CIVIL and REVENUE LITIGATION.

		2	3	4	8	0	7	. 8	0
		28 10	wher of Civil	Saite concernd	ing	Palue in ru	pers of Seits o	oncorning *	
TEAR.		Money or movalds property.	Rent and tenancy rights.	Cand and revenue, and other matters.	Total.	Land	Other matters,	Total,	Number of Bevenue ruses.
1878		-			-				-
	2.5	4,791	1/16	752	5,711	27.	1,55,690	1,85,490	5,042
1879	7.5	4,785	906	655	5,894	14,747	1,70,978	1,85,023	6,085
1990 .	- 14	5,212	84	1,175	6,471	45,724	1,71,380	2,17,104	
1881		4,148	20	831	5,400	23,972			E,100
1862		4,530	20	1		1000	1,84,919	2,02,891	6,849
		#Janests	20	200	4,840	31,300	1,74,538	2,05,647	6,578

Note.—These figures are taken from Tables Nos. VI and VII of the Civil Report from 1878 to 1880, and Nos. II and III of the Reports on Civil Junice for 1881 and 1882.

Suits heard in Settlement courts are excluded from these columns, no details of the value of the property being

## Table No. XL, showing CRIMINAL TRIALS.

-			1	4 1	8	11.
	1					
	DETAILS.	1579.	1879.	1890:	1561.	1882.
Paresna tried.	Brought to trial Discharged Asquitted Convicted Committed or referred	1,970 616 401 859 4	2,109 917 340 912 4	1,918 7/2 225 808 18	2,417 805 113 1,548 14	2,543 845 114 1,403 35
Canta dis-	Sammone cases (ragular) (summary) Warrant cases (ragular) (summary) Total cases disposed of	5.57	1,089	968	5/22 670 5 1,107	813 813 1.137
est to	Penal acrestude	1	1	2 3		1 3
Sumber of persons sentenced to	Fing under Rs. 10	525 182 5	195 5 4	305 307 18 2	441 387 88 48	723 230 15 1
aber of pe	Imprisonment under 6 months 6 months to 2 years ever 2 years Whitping	827 93 9 62	450 102 8 95	401 115 14 90	507 90 7 63	460 154 4 60
Nam	Find survives of the peace Recognisance to keep the peace Give survives for good behaviour	- 9	35	11	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	27 196

Nove. -These figures are taken from Shykements Nos. III.and IV of the Criminal Reports for 1875 to 1880, and Nos. IV and V of the Criminal Reports for 1881 and 1884.

#### Table No. XLI, showing POLICE INQUIRIES.

i	2	3	4	5	6	T I	6	9	10	11	12	19	14	15	75
	Nam	her of o	user la	paired	inte.	Nam		jursi'del atal Turuna Aa		and over	Num	ober of 1	persons	ean rie	red.
Nature of offence.	1877	1878	1879	1880	1881	1877	1874	1879	1980	1891	1805	1278	1570	1800	1881
Rioting or unlawful assembly	8	4	1	1	19	28	27	23	10	108	26	12	18	17	134
durder and attempts to murder	2	6	2	7	3.	6	12	4	9	5	1	5	2	2	1
Fotal actions offences against the person Chemetion of married	22	27	30	47	29	47	5.9	X06	102	00	25	35	37	23	20
women	100	144		1.1	-	44	19.0	10	75	-27	70-	*	44		**
rotal serious offences against property .	158	242	240.	229	162	100	160	202	190	164	78-	111	141	122	11
fetal sainer effecces against the person Catile theft	200	11 3.14	7 300	21 356	57 208	190	94 257	11 201	294 294	00 204	340	172	11 200	15	12
Fotal minor offences	410	COM.	670	615	WOO.	430	518	600	625	608	210	887	460	420	44
Total cognisable of fenom	617	214	940	947	867	425	810	1,000	901	1,103	461	803	674	80%	71
Ricting, unlawful as-			-	1				-111		77		mark.		100	
Offences relating to							1	7	ė	24		7	1	1	
marriage Total non-cognizable	12	-1	3	2	20	-	100					-	80	30	1
office-s	m	40	87	47	104	80	77	51	97	130	32	29	0.0	100.00	-
GRAND TOTAL of of-	1,506	2,192	2,305	2,297	2,161	LES	1,008	2,471	2,254	2,615	1,102	1,907	1,877	1,464	1,71

Korn.-These Squres are taken from Statement A of the Police Report.

# Table No. XLII, showing CONVICTS in GAOL.

											_		
1.	2	5	4	6	6	T	8	0	10	11	12	13	14
	No. in p beginning prote		No imprimumal Religion of convicts, during the year.				Premous occupation of male consists.						
YEAR.	Malos.	Pumales.	Malos.	Femiles.	Musulman.	Hindu	Buddhlat and Jain.	Official.	Professional.	Service.	Agrienthural.	Commercial.	Industrial
1877-78	201 156 225 947 298	4 10 10 10 10 10 10 10 10 10 10 10 10 10	\$46 454 544 518 676	5 11 7 15 17	588 540 913 915 906	87 25 7 11 13	10.00	2 2 2 1	1 4 5	1	506 454 204 200 128	7 5	10000
	15	10	17	18	19	20	21	22	23	24	- 95		26
								-				- L	-
		Lengt	ih of armi	men of co	ongistic.				reziona. La riste		Person	ilary:	results.
YEAR	Under 6 months.	Committee to I	1 year to 2 years.	a years to 5 years.	6 years to lift years.	Over 10 years and transportation.	Dokth.				Cost of main-	1	Profits of convict.

Norz.—Those figures are taken from Tables Nos. XXVIII, XXIX, XXX, XXXI, and XXXVII of the Administration Report.

#### Table No. XLIII, showing the POPULATION of TOWNS.

1		_2		3	4	5	6	7	8	9	10
Tahsil.		Town.		Total popula- tion.	Hindas.	nikhs.	Jains.	Musalmans.	Other religions.	No. of normpled houses.	Persons per 100 occupted houses.
				,							
Thong		Maghlana	N	12,574	5,017	382		6,505	100	1,084	747
		Jhang	4.0	9,000	4,270	140	7.	4,636	6	1,025	881
Chimiet		Chinist	3.0	10,701	3,475	113	14	7,163		1,088	966
Shorket	-	Shorkot		1,283	1,167	12		1,104	4.	565	623
		Ahmadpur		9,308	1,483	22		876		4.93	541

Table No. XLIV, showing BIRTHS and DEATHS for TOWNS.

1		2	* 3	4	5	8	7	8	9	10	11	12	13
TOWN.		Sex.	Total population by the Census of	Total		is reglat the your	ered da	uring	Total e	leaths reg	istered d	ering the	year.
		700	1875.	1877.	1878.	1879.	1880.	1881.	1877.	1878.	1879.	1680.	1881.
Maghiana	{	Males Females	7,719 5,800	212 196	211 205	198 155	279 238	253 259	155 157	275 237	209 165	129	158 145
Jhang		Males Females	4,634 8,975	98 103	194 196	100 84	168 142	162 177	90 96	97 90	169 191	96 85	86 110
Chiniot	{	Males Females	6,250 5,740	227 245	937 929	189 196	190 217	231 219	146 164	168 182	154 172	142 157	135 151

Nora-These figures are taken from Table No. LVII of the Administration Report.

Table No. XLV, showing MUNICIPAL INCOME.

	1	AS .		04	2	3	4	5
33	AME OF MC	HICIPAL	arv.		Jhang and Maghium.	Chiniot.	Shorkot,	Ahmadpur.
Class of Mu	inicipality	244	12	**	II.	IIL	IIL	ш.
1870-71	4	-4-	**		10,895	2,749		**
1871-79	**	***	*		21,065	4,140		
1872-78	***	200		**	22,182	4,811		9.9
1873-74	322	44	**	**	20,879	5,020	1000	
1874-75	94		le m	• 9	26,333	5,774	1,084	995
1975-76	9 1. 8	***	.8.3		24,621	8,859	1,108	762
1876-77	**	**	***		23,590	5,539	1,513	880
1877-78		-41			*23,911	5,524	1,293	785
1878-79		**	**	**	23,951	5,546	1,264	1,042
1879-80		275		**	25,146	6,182	1,587	1,015
1880-81		**	**	11	25,005	6,720	1,212	1,032
1881-82	**	**			26,594	6,586	1,335	1,000

Table No. XLVI, showing DISTANCES.

				dinnu.	18 Chab Bhareri.	28 46 Blamb,	37 55 9 Kot Ist Shaft,	24 42 43 52 Toba Tek Singh,	9 27 37 46 18 Haveli Bahádar Shah,	25 44 54 61 26 17 Shorkot,	44 44 72 81 48 39 22 Ahmadpur.
			Lifen.	66 Trimme.	80 18	41 28	50 37	79 24	88	88	112 44
		Chiniot,	14 Lation.	5	25	48	29	212	3	98	108
-	Bhoána,	76	88	90	58	16	22	19	4	89	38
Thang.	88	52	19	12	30	80	ล	83	17	#	25
4					1.	***					
31	1				1		1	1	49	1	.1
Jhang	Bhoána	Chiniot	Lalian	Irimma	Cháh Bhareri	Bhamb	Kot Isa Shah	Toba Tek Singh	Haveli Bahadár Sháh	Shorket	Ahmadpur



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